



3.4 RNS 510

Navigation system





About this booklet

This booklet contains important information and warnings on using your radio navigation system. The other booklets in the vehicle wallet contain further information which you should be aware of for your own safety and for the safety of your passengers.

Please ensure that this booklet is in the vehicle if you lend or sell the vehicle to someone else.

Some sections of this booklet do not apply to all vehicles. In these cases, the text at the start of the section indicates **to which vehicles it applies**, e.g. "Applies to vehicles with: CD changer".

Illustrations may vary from your vehicle in some details. You should therefore regard illustrations as a general guide.

An **alphabetical index** is included at the end of the booklet.

Directions and positions (e.g. right, left, front, rear) are always relative to the direction in which the vehicle is travelling unless otherwise stated.

- ▶ The section is continued on the next page.
- ◀ Symbolises the **end of a section**.

- ® Registered trademarks are marked with ®. However, the absence of this symbol does

not guarantee that the term is free from copyright restrictions.

⇒ ⚠ Cross-reference to a "WARNING!" text within a section. This "WARNING" text is located outside of the section if a page number is given.

⇒ ⓘ Cross-reference to a "caution" text within a section. This "caution" text is located outside of the section if a page number is given.

⚠ WARNING

Texts with this symbol contain information on safety. They help protect you from accidents and injury.

ⓘ Caution

Texts with this symbol draw your attention to potential sources of damage to your vehicle.

🌿 For the sake of the environment

Texts with this symbol contain additional information on the protection of the environment.

📌 Note

Texts with this symbol contain additional information.

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- Please note that a dirty or scratched navigation DVD can seriously impair the speed and functions of the navigation system.

Note

- Your navigation system is a powerful computer. Just like your computer at home, the unit needs a few seconds to process complex commands. In these cases, the unit may no longer react to external commands until the commands being processed are finished. Be patient, as the unit may already have "stored" the commands, even if it does not appear to be reacting to them. These commands are processed one after the other when background processing is complete, which could lead to confusion.
- The DVD drive in this unit uses a Dolby Digital[®] audio coding system and MLP Lossless[®] for

optimal playback quality, including for audio DVDs that conform to this standard. "Dolby[®]", "MLP Lossless[®]" and the double-D symbol are registered trade marks of Dolby Laboratories[®].

- The surround sound of a DVD is converted using "DTS[®]" and "DTS 2.0[®]" and reproduced in optimal stereo quality. "DTS[®]" and "DTS 2.0[®]" are registered trade marks of DTS, Inc.
- WMA audio files (Windows Media Audio) can also be played on the unit and stored on the hard drive (HDD) provided they are not copyright protected by the DRM process (Digital Rights Management). Their operation and performance on the unit is the same as for MP3 compressed audio files, and is therefore not described separately here ⇒ page 28, "MP3 files". ◀

Operation whilst the vehicle is in motion

Travelling on today's roads requires the driver's full attention at all times.

WARNING

Please keep your attention on driving at all times. Accidents and injuries can occur if the driver is distracted.

- Do not allow yourself to be distracted from the road by making settings in the unit or using the unit itself.
- Please only use the unit when the road, weather and traffic conditions are such that it is safe to do so.

WARNING (continued)

- The volume settings should be selected so that warning signals from outside the vehicle, e.g. police or fire brigade sirens, can be heard at all times.

Note

Depending on the country, some radio navigation system functions can no longer be selected when the vehicle is travelling above a certain speed. This is not a malfunction, but simply the legal requirements valid in this country. ◀

General operation

The screen of the unit is known as a touchscreen. Areas with a colour border on the screen are currently "active" and can be operated by touching the screen.

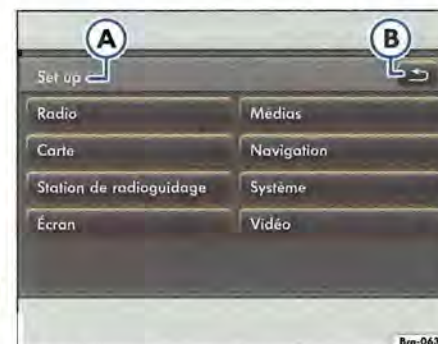


Fig. 2 SETUP function selection button: Settings main menu.



Fig. 3 SETUP function selection button: Radio main menu.

The following information provides a brief overview of how the unit is operated.

The main menu is called up using "function selection buttons"

- For example, press the "function selection button" ⇒ page 2, fig. 1 [SETUP], to call up the Settings main menu ⇒ fig. 2.

Operating the touchscreen

- Functional or active areas of the screen have a colour border.
- Touch the screen inside the active area to activate it. ▶

“Function keys” on the screen

- Active areas of the screen that call up a function or menu are called “function keys”.
- After touching a function key, the screen view changes to the corresponding menu.
- For example, in the *Settings* main menu, touch the **Radio** function key ⇒ page 5, fig. 2 to call up the *Radio settings* ⇒ page 5, fig. 3 menu. The title line will show the menu where you are currently located **A**.
- Use the **Back** function key to change from any menu back to the previous menu.

Moving objects or controllers

- Put your finger on the screen on a movable object such as the “slider” **C** in a “scroll bar” ⇒ page 5, fig. 3.
- Move your finger across the screen *without lifting it*. The object follows your movements but only within the pre-defined area.
- Lift your finger from the screen at the desired position.
- To view the displayed menu section ⇒ page 5, fig. 3 move the right slider in the scroll bar all the way to the bottom.
- Alternatively you can move the slider up and down by touching the function keys **Up** and **Down** on the screen.
- A slider in a setting bar **D** can also be moved by pressing **Left** or **Right**. For example in the screen settings for Video/DVD operation ⇒ page 40.

If no function keys are shown with the unit switched on (e.g. while playing a DVD), touch

the screen briefly to show the current available function keys.

A function key highlighted in grey is currently not available (e.g. the function key **SD card**) in the *MEDIA* main menu if no memory card is inserted ⇒ page 20, fig. 13).

“Scroll bars”: moving the screen section

The vertical bar on the right edge of the screen with a slider **C** between the arrow keys **Up** and **Down** is called a “scroll bar”. It indicates that additional menu entries will become visible if the slider is moved all the way to the bottom.

Settings menu: modifying settings

Settings or values are modified in the setting menu ⇒ page 40, fig. 36. The settings are changed by moving the slider **D** or pressing the function keys **Left** or **Right**. Touch the **Back** function key to accept a changed setting and to return to the original menu.

“Pop-up window”: selecting an option

A function key with an arrow **▶** after another function key indicates the currently selected setting, e.g. for **Preferred TMC station** **▶ Automatic** ⇒ page 5, fig. 3 **D**.

If you touch the **▶** function key on the screen, a “pop-up window”⁶⁾ is opened displaying all the possible setting options.

Briefly touch the desired setting option. The pop-up window disappears and the newly selected setting option is shown in the **▶** function key. To close the pop-up window without changing the setting, touch the **Back** function key in the pop-up window.

“Checkbox”: switching a function on or off

Some functions can only be switched on or off.

There is a “checkbox” **E** in front of a function that can be switched on or off. A tick in the checkbox **✓** indicates that the function is switched on, and an empty checkbox **□** means that it is switched off.

To switch it on or off, touch the function key briefly. ◀

⁶⁾ A pop-up window is shown in front of the current menu and is closed automatically after a setting has been selected.

Presentation in this operating manual

A brief explanation to better understand the presentation of procedures and functions shown in this manual.

This operating manual differentiates between non-modifiable, printed keys on the unit, and the “function keys” (soft keys) which appear on the screen.

The printed unit buttons (e.g. the function selection buttons ⇒ page 2, fig. 1 **2**) are always accompanied by the word “button” in the text. An example instruction in the manual is: “Briefly press the **TOPE** function selection button.” If a “button” or a “function selection button” is mentioned in the manual together with the button symbol **□**, you will find this button on the unit and **not** on the screen. You will find an overview and brief description of the unit buttons at the beginning of the manual ⇒ page 2, fig. 1.

Function keys are described in the text by the word “function key” and the key symbol **□** or, in some cases, **only** by the key symbol **□**.

When a function key is referenced in an illustration for the first time, an illustration reference is inserted in addition to the key symbol. The illustration reference is shown at the beginning of an illustration description. When the text refers to another illustration, a new illustration reference is inserted.

Procedure example

The procedure for switching the Traffic information function on or off is described as follows:

- Briefly touch the **SETUP** function selection button.
- In the *Settings* ⇒ page 5, fig. 3 main menu, touch the **Radio** function key and in the following menu, touch **Traffic information** to switch the Traffic information function on or off.

Structure of the manual

The unit overview is at the beginning of the manual where the unit buttons (hard keys) and additional control elements are explained in a brief overview.

If more detailed information is required relating to the position of a particular control element, cross-references are made to the unit overview and its numbering. Only the screen content is shown in other illustrations in the manual.

An overview providing a brief explanation of the available functions is included at the beginning of each main chapter. The details of the individual commands can be found in the additional chapters of this main chapter. A function overview in table form is provided at the end of some main chapters. ◀

Switching on or off

Anti-theft coding electronically prevents unauthorized persons from operating the unit after it has been removed from the vehicle.



Fig. 4 Entering the PIN.

Switching on or off

- Briefly press the on/off switch ⇒ page 2, fig. 1 to switch on the unit. The system is started and the most recent settings are loaded. The most recently used audio or video source is activated.
- Press the on/off switch again to switch off the unit.

Entering the PIN

- If the keyboard field appears after the unit is switched on, requesting that you enter a code, the unit must be unlocked by entering the correct, four-digit code number. The number of possible attempts is shown in the second line of the screen.
- Touch a number between 0 and 9 on the number pad on the screen. The number is entered in the input line.
- After you have entered a four-digit number, the number pad becomes grey (inactive) and no more numbers can be entered in the input line.

- Touch on the screen to delete numbers in the input line from right to left, thus allowing you to correct your input.

- When the correct code number is shown in the display, touch .

When the unit is switched on, the last audio or video source used is activated at the most recent volume setting, provided that the pre-selected "switch-on volume" is not exceeded ⇒ page 55.

Time out

The unit will be switched off if the ignition is turned off. It is possible to switch the unit back on when the ignition is switched off. The unit will be switched off again automatically after a half an hour to protect the vehicle battery.

Convenience radio coding

If the unit is removed and reinstalled or the vehicle battery disconnected, you will no longer have to enter the anti-theft coding manually as the code number remains stored in the vehicle when it is entered for the first time.

If the code numbers do not match, however, e.g. because the unit has been installed in another vehicle, the electronic lock must be released manually ⇒ page 8, "Entering the PIN".

Code number

The code number can only be requested "on-line" via the Volkswagen system thus making more effective anti-theft protection possible. Please contact your Volkswagen dealer if you require assistance.

Incorrect code number

This whole procedure can be repeated once if you enter an incorrect code number by accident when releasing the electronic lock. The number of possible attempts is shown in the second line of the screen.

If you enter an incorrect code number again, the unit is locked for around one hour. This means it cannot be started (display: "System locked! Please wait ... minutes").

The display will disappear after one hour, during which time the unit must remain switched on. The electronic lock can be released as described above.

The same cycle - two attempts, one hour lock - applies again. ◀

Using input masks

Overview

Input masks are used to select an address or enter a name or numbers.

There are two kinds of input masks. The input masks used to search for and call up information in the unit (e.g. "select" an address) and input masks where "free text" can be entered.

Input masks appear in a wide range of menus but their operation is almost identical. The highlighting colour of the available function keys depends on which menu the input mask was called up from.

Input masks for selecting a saved entry

These input masks can be found in the navigation for selecting a target address from the available navigation data. Each entry limits the selection of available entries further ⇒ page 62, "Input windows for navigation" or ⇒ page 114, "Searching for an entry in the telephone book"⁷⁾.

Input masks for "free text input"

Free text entry allows any letter, number, and special character to be entered in any combination at any time. All special characters are always available for each letter. Touching the **OK** function key will apply the character sequence as it

appears in the input line. You can accept a name offered by the unit or allocate your own name.

Selecting special characters based on letters

In input masks, a number of letters are also marked with a small triangle "▼". This indicates that special characters based on this letter can be selected.

Keep the function key pressed until a pop-up window appears with the special character. Accept the desired character by touching the input line – the pop-up window will be closed. If no entries are made, the pop-up window is closed automatically after a few seconds.

Some special characters can also be "written out". Thus, instead of the German special characters "Ä", "Ü", and "Ö", the sequence of characters "AE", "UE", and "OE" are recognised by the navigation system. Other special characters can be ignored, e.g. instead of "É", "Ê", or "Ë", a normal "E" is recognised by the navigation system. ◀

Input mask for free text input

An input mask for free text entry allows any letter, number, and special character to be entered in any combination.



Fig. 5 Input mask for free text input.

You can enter free text in some menus. This can be done, for example, when assigning a file name to save MP3 files on the hard drive ⇒ page 30 or when searching for the name of a point of interest ⇒ page 70.

- Touch **OK** to accept a sequence of characters offered by the unit, or touch **X** to delete the characters in the input line.
- In the input mask, touch a character displayed in the keyboard block to add it to the input line.

– You can also delete or alter the characters in the input line, as well as add additional characters ⇒ page 11, "Further input options:".

– Touch **OK** to accept the series of characters displayed in the input line. Touch **X** to close the input mask without accepting the entries.

Letters marked with a small triangle "▼" indicate that special characters can be selected based on this letter ⇒ page 10, "Selecting special characters based on letters".

Further input options:

↕ – changes from upper case to lower case and vice versa.

[A-Z] – opens the input mask for numbers and special characters. The function key changes to **[A-Z]**. Touch **[A-Z]** to change to the letter input mask again.

[] – space bar for entering spaces.

◀ or **▶** moves the cursor in the input line to the left or right.

[X] – deletes characters from right to left in the input line starting at the position of the cursor. ◀

⁷⁾ only for vehicles with PREMIUM mobile telephone provision

Input mask for entering numbers

An input mask for number entry allows numbers to be entered in any combination.

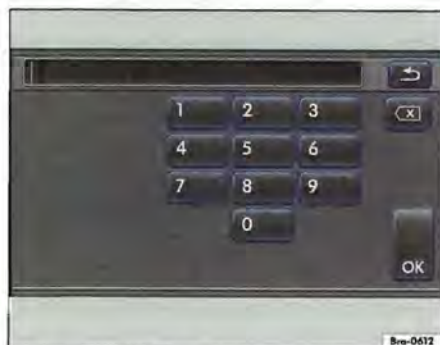


Fig. 6 Input mask for entering numbers.

- Touch **[OK]** to accept a displayed sequence of numbers, or touch **[X]** to delete the characters in the input line from right to left.
- In the input mask, touch one of the function keys **[0]** to **[9]** to accept the number in the input line.
- Touch **[OK]** when the correct number is displayed in the input line. Touch **[X]** to close the input mask without accepting the entries. ◀

Function selection button RADIO

Radio mode

Selecting radio stations

Radio stations can be changed simply by pressing a button or can be set manually via the station frequency.



Fig. 7 RADIO main menu.

All radio stations with strong reception are automatically stored in the station list. The station list is updated automatically on a regular basis.

Opening the RADIO main menu and selecting the frequency range

- Press the **[RADIO]** function selection button to open the **RADIO** main menu. The station you are currently listening to is shown at the top of the screen. With RDS-compatible⁸⁾ stations, the station name is displayed if reception is strong enough, e.g. ⇒ fig. 7 "Radio 2".

- Press the **[RADIO]** function selection button again to change the frequency range ⇒ page 14. Or, in the **RADIO** main menu, touch the **[Band]** function key and then press **[FM]** or **[AM]** in the popup window which opens. The current frequency band is displayed in the top left corner of the screen.

Changing radio stations

- Briefly pressing the arrow keys on the unit ⇒ page 2, fig. 1 **③** or touching the arrow keys on the screen of the **RADIO** main menu takes you to the previous or next station. Depending on the settings in the **Radio settings** menu, you move to a station from the station list or the memory list ⇒ page 121, "Specifying station selection using arrow keys".

Selecting radio stations from the station list

- Touch the **[Station List]** function key to view a list of all radio stations which can currently be received. The list "jumps" straight to a view of the station you are currently listening to.
- Move the slider in the scroll bar down to see more stations.
- Touch the required station to select it. The station list view closes automatically after around 20 seconds of inactivity. ▶

⁸⁾ "Radio Data System" - used to transmit programme identification and additional services ⇒ page 16, "RDS Function"

Selecting stored radio stations

Stored radio stations can be selected using the on-screen station buttons or from the memory list.



Fig. 10 RADIO main menu: Memory location 4 is selected.

If the radio station you are currently listening to is already stored in the memory list, the memory location number will be displayed beside the frequency band (FM or AM) ⇒ fig. 10.

RDS Function

RDS ("Radio Data System") is used to transmit programme identifiers and additional services, thereby enabling functions such as automatic station tracking.

With stations that are RDS-compatible, the station name will be displayed instead of the frequency, provided reception is good enough.

If a radio station broadcasts additional information with the RDS function while a station is being stored, the name of the radio station may

Selecting stations via the station buttons

– Briefly touch one of the six station buttons ⇒ fig. 10 [1...] to [6...] displayed in the RADIO main menu to activate the station displayed.

Selecting stations from the memory list

– Touch [Memory] to open the memory list.
– In the memory list, touch the display of the station you require ⇒ fig. 10.

If selecting from the [Memory list] is programmed in Radio settings ⇒ page 121 as an option for the [arrow keys], then stored stations can also be selected using the arrow keys on the unit and the on-screen arrow keys on the RADIO main menu screen. In this case the word "Memory" will appear at top left beneath the function key [↔].

You can specify which six station buttons will appear in the RADIO main menu in the Radio settings menu ⇒ page 121, "Selecting station buttons for display".

The view of the memory list closes automatically after around one minute of inactivity. ◀

not subsequently be correctly displayed in the memory list.

Changing a station name

You can change the station name manually.

Select the stored radio station and wait until the correct name appears on the screen. Keep your finger pressed on the display of the station name between the arrow keys until "Station name has been saved" appears. ◀

Overview of functions for the RADIO function selection button

Main menu: RADIO		
Function keys	1. Sub-menu	2. Sub-menu
and	Go to the last or next station (from the station list or memory list depending on the setup ⇒ page 121, "Specifying station selection using arrow keys").	
Band	Popup window: Frequency selection – FM – AM	
Station list	– List view of radio stations that can currently be received: Touch the station to select it.	
Memory list		– List view of stored radio stations: Touch the stored station to select it.
	Memory	– List view: Touch to select memory location.
		– Popup window: Confirm <i>Delete</i> or select <i>Cancel</i> .
Extras or ► Scan	Popup window: Turn special functions on or off – Scan: Turn automatic scan on or off. – TP function on or off: Activate ☒ for "on".	
	If "► Scan" is displayed in the function key, the scan function is on – touch to turn it off.	
Man.	Set radio station manually: The frequency band appears at the bottom - press the settings knob to hide it.	
Touching the function key takes you from any menu to the menu you previously selected. Station list and Memory list close automatically after 20 seconds of inactivity.		

Traffic programme (TP) function

If the traffic programme function is turned on, you will hear traffic announcements made by a TP station during active audio mode. The audio mode will be paused for the duration of an announcement.



Fig. 11 Activating the TP function.

Turning the traffic programme (TP) on or off

- Press the **[RADIO]** function selection button to open the **RADIO** main menu.
- Touch the **[Extras]** function key.
- In the popup window which opens, touch **[TP]** briefly to turn the traffic programme function on or off. A tick in the checkbox ☒ indicates that the TP function is already active. Alternatively, the TP function can also be turned on or off in the **RADIO** settings $\Rightarrow$ page 121.

The display “TP” in conjunction with a station name (e.g. in the station list or memory list) indicates a TP station.

Whatever radio station you happen to be listening to, an additional receiver section in the unit ensures that a TP station is always received so long as the TP function is turned on.

“TP” in the top right corner of the screen indicates that the TP function is ready for use $\Rightarrow$ fig. 12.

If no TP station can be received at any time, e.g. because radio reception is generally poor, then



Fig. 12 Incoming traffic announcement.

“No TP” is displayed instead of “TP”. Note that multi-storey car parks, tunnels, high buildings or mountains can interrupt or even completely block radio signals.

Incoming traffic announcement

A popup window opens $\Rightarrow$ fig. 12 while a traffic announcement is being played.

If you wish to interrupt the announcement, touch **[Cancel]** in the *Traffic announcement* popup window. The TP function remains in standby (display: TP) and the next traffic announcement will be made in the current audio mode. Touch **[Désact. TP]** to permanently deactivate the TP function.

The unit will be switched to predefined settings for volume, balance and fader for the duration of the announcement. You can change these settings while the traffic announcement is being made.

Adjust the volume during a traffic announcement using the volume control. Press the **[TONE]** function selection button to adjust the settings for balance during a traffic announcement $\Rightarrow$ page 55.

In the volume presets you can also specify the volume with which traffic announcements are made $\Rightarrow$ page 55. ◀

Function selection button MEDIA

General information on CD/DVD mode

Audio CDs (CD-A) and audio DVDs, MP3 CDs and MP3 DVDs, as well as video DVDs can be played in the internal CD/DVD drive.

CD cannot be read

If a CD/DVD is loaded which the player cannot read, the following messages appear briefly “CD error. Please check CD.” or “Incorrect data format. Unable to read file.” and the CD/DVD is ejected after a few seconds.

If the CD/DVD is not removed from the tray within 10 seconds, it is retracted again to prevent damage.

⚠ WARNING

- The CD player is a class 1 laser product. When the CD player is opened, there is a risk of injury caused by the invisible laser beams escaping from the unit.
- The CD player contains no parts which you can service or repair by yourself. You should therefore contact an authorised dealer if there is a mechanical fault or if a repair is required.

⚠ Caution

- Inserting a second CD/DVD while an inserted CD/DVD is being ejected can destroy the CD/DVD drive in the unit. Note that it takes a few seconds to eject the CD/DVD after pressing the **Eject** button . The protective barrier in front of the CD/DVD slot is opened while this is happening. You must wait until the CD/DVD is ejected before trying to insert a new CD/DVD.
- If the CD/DVD drive has a mechanical fault or if a CD/DVD has been incorrectly or not fully loaded, the message “CD error. Please check CD.” and then “DVD drive error” appears on the screen. Check the CD/DVD and then insert it properly in the drive. If the message “DVD drive

error” reappears, please contact your Volkswagen Service $\Rightarrow$.

- You will be unable to insert any more CDs or DVDs if the temperature inside the unit is too high. The unit will switch on in the last used mode.
- Refer to the notes on handling CDs and DVDs $\Rightarrow$ page 54, “Handling data media (CDs and DVDs)”.

📌 Note

- If the **[CD]** function key is shown as inactive, it means that no audio CD/DVD is currently loaded or that a loaded audio CD/DVD cannot be read.
- You might not be able to play copy-protected CDs or CD-Rs, CD-RWs and DVD-RWs which you have burned yourself.
- WMA audio files (Windows Media Audio) can also be played on the unit and stored on the hard drive (HDD) provided they are not copyright protected by the DRM process (Digital Rights Management). Their operation and performance on the unit is the same as for MP3 compressed audio files, and is therefore not described separately here.
- Please also refer to the additional information on MP3 mode $\Rightarrow$ page 28.
- Please observe the copyright laws applicable in your country.
- The DVD drive in this unit uses a Dolby Digital® audio coding system and MLP Lossless® for optimal playback quality, including for audio DVDs that conform to this standard. “Dolby®”, “MLP Lossless®” and the double-D symbol are registered trade marks of Dolby Laboratories®.
- The surround sound of a DVD is converted using “DTS®” and “DTS 2.0®” and reproduced in optimal stereo quality. “DTS®” and “DTS 2.0®” are registered trade marks of DTS, Inc. ◀

MEDIA main menu

Overview of the MEDIA main menu

The MEDIA main menu is used to start and control the playback of different audio and video sources or to store MP3 files on the unit's hard drive.



Fig. 13 MEDIA main menu: Audio menu.

Depending on the selected media source, the MEDIA main menu is displayed as an audio menu ⇒ fig. 13 or video DVD menu ⇒ fig. 14.

Activating the MEDIA main menu and selecting a media source

– Press the **[MEDIA]** function selection button to go to the MEDIA main menu. Playback of the media source last played is resumed.

– If video and audio sources can currently be selected on the unit, use the **[MEDIA]** function selection button to switch between the last audio source and the last video source.

Selecting a different audio source

– In the audio menu, touch one of the function keys at the top of the screen ⇒ fig. 13 to select a different audio source.

– Touch the **[Video]** function key to change to the video DVD menu ⇒ fig. 14.



Fig. 14 MEDIA main menu: Video DVD menu.

Selecting a different video source

– In the video DVD menu, touch one of the function keys at the top of the screen ⇒ fig. 14 to select a different video source ⇒ page 38.

– Touch the **[Audio]** function key to change to the audio menu ⇒ fig. 13.

"Audio sources" are sources which only transmit audio signals; "video sources" transmit both audio and video signals. "Media sources" are all audio and video sources which can be selected.

If a media source that has already been played is selected again, playback is resumed from the point that was last played.

If you cannot currently select a media source, for example because no data medium (e.g. memory card) is loaded, the function key is greyed out ⇒ fig. 13: **[SD card]**.

Hardkeys to control the current audio or video source

The arrow keys on the unit ⇒ page 2, fig. 1 **[<]** or **[>]** always refer to the audio source you are currently listening to, whatever menu you are in at the time.

Briefly press **[<]** to go to the beginning of the current track or chapter, press again to go to the beginning of the previous track or chapter.

Briefly press **[>]** to go to the beginning of the next track or chapter.

In the menu of the audio source currently playing, tracks can also be changed using the settings knob.

Function keys to control the current audio or video source

Briefly press **[<]** to go to the beginning of the current track or chapter, touch again to go to the beginning of the previous track or chapter.

Briefly press **[>]** to go to the beginning of the next track or chapter.

[||] – Pause: Playback is paused at the current point - the icon changes to **[||]**, touch **[>]** to resume playback from that point.

Selectable audio sources in the Audio menu

[CD] – changes to a loaded CD/DVD ⇒ page 24 or to playback from an external CD changer⁹⁾.

[SD card] – changes to a loaded memory card ⇒ page 24.

[HDD] – changes to the audio files stored on the internal hard drive ⇒ page 28. MP3 files and unprotected WMA files¹⁰⁾ can be stored on the hard drive from all available media (CD, DVD, memory card) ⇒ page 30.

[AUX] – switches to an additionally connected external audio source¹¹⁾. Operating an externally connected audio source from the radio navigation unit is subject to limitations and will largely depend on the type of connection. Your Volkswagen Partner will be pleased to help you.

Selectable video sources in the Video DVD menu

[AV] – changes to an optionally connected external video source¹²⁾.

[TV] – switches to TV mode if a TV tuner¹³⁾ is connected ⇒ page 42.

[DVD] – changes to a video DVD loaded in the internal CD/DVD drive ⇒ page 38.

Additional function keys in the Audio menu

[Video] – changes to the video DVD menu and plays the last selected video source ⇒ page 20, fig. 14.

[Repeat] – opens a popup window which defines whether the repeat function will repeat the **[Track]** or the **[CD]** (in Audio CD mode) or the current **[Folder]** (in MP3 mode ⇒ page 28).

[Extras] – opens a popup window in which random playback Mix ⇒ page 27 or the automatic Scan ⇒ page 28 can be started. If **[Mix]** or **[Scan]** is already displayed, then the corresponding function is already active – touch the function key briefly to close.

[Selection] – opens the track list of the current audio source for you to select a different track ⇒ page 25 or a different audio source ⇒ page 24.

Additional function keys in the Video DVD menu

[Audio] – changes to the audio DVD menu and plays the last selected audio source ⇒ page 20, fig. 13.

[Menu] – switches the video DVD played in the internal CD/DVD drive to the menu selection of the film and also opens the unit's own menu control ⇒ page 38.

[Display] – opens a setup menu where you can adjust the display setup for the current film ⇒ page 40.

[Chapter] – opens the chapter selection for the video DVD playing in the internal CD/DVD drive ⇒ page 40.

⁹⁾ Optional equipment ⇒ page 33, "External CD changer"

¹⁰⁾ Audio files that have been compressed via Windows Media Audio may also be copyright protected by the DRM process (Digital Rights Management). The unit does not support WMA files protected in this way.

¹¹⁾ Optional equipment ⇒ page 124, "Media settings"

¹²⁾ Optional equipment, can only be connected if the unit is also fitted with a TV tuner ⇒ page 124, "Media settings" and ⇒ page 126, "Video settings"

¹³⁾ Optional equipment

**Note**

Please also refer to the additional information on MP3 mode ⇒ page 28. ◀

Inserting and ejecting CD/DVDs

Audio CDs/DVDs and MP3 CDs/DVDs, as well as video DVDs can be played in the internal CD/DVD drive.

To select a CD/DVD that has already been inserted in the internal CD/DVD drive again, please read ⇒ page 24, "Selecting a track or an audio source".

Inserting a CD/DVD

– Push the CD/DVD with the printed side facing up into the CD/DVD slot to the point where it is automatically pulled into the unit ⇒ . Playback starts automatically (exception ⇒ page 19, "CD cannot be read").

Ejecting a CD/DVD

- Press to move the CD/DVD in the internal CD/DVD drive to the eject position.
- Remove the CD/DVD.

A CD/DVD will be retracted back into the player to prevent damage unless removed from the ejection position within around ten seconds.

Playable MP3 and WMA files can also be stored on the unit's hard drive ⇒ page 30.

WMA files (Windows Media Audio)

Audio files that have been compressed via Windows Media Audio may also be copyright protected by the DRM process (Digital Rights Management). The unit does not support WMA files protected in this way.

**WARNING**

- Please refer to ⇒ page 19, "General information on CD/DVD mode" and ⇒ page 53, "Important information on operating the CD player".

**Caution**

- Inserting a second CD/DVD while an inserted CD/DVD is being ejected can destroy the CD/DVD drive in the unit. Note that it takes a few seconds to eject the CD/DVD after pressing the eject button . The protective barrier in front of the CD/DVD slot is opened while this is happening. You must wait until the CD/DVD is ejected before trying to insert a new CD/DVD.
- CDs/DVDs should always be stored in the rack from the Genuine Volkswagen accessories range or in the original case when not in use.

**Note**

- Uneven road surfaces and strong vibrations may cause the CD/DVD to jump. The CD/DVD play function should be switched off in this case.
- If the unit cannot read a CD/DVD please also refer to ⇒ page 19, "General information on CD/DVD mode".
- With cabriolet car models, for anti-theft reasons, the ignition key must be inserted in the ignition when the eject button is pressed. ◀



Inserting or removing a memory card

MP3 files stored on a memory card can either be played directly from the card or stored on the unit's hard drive.

To re-select a memory card that has already been inserted, please read ⇒ page 24, "Selecting a track or an audio source".

Inserting a memory card

– Push the memory card into the memory card slot ⇒ page 2, fig. 1 , with the clipped corner to the front and right (horizontal card slot) or to the front and top (vertical card slot), until it engages into place. Playback starts automatically (exception ⇒ page 23, "Memory card empty or data unreadable").

Removing a memory card

- Push on the inserted memory card against the spring resistance and the card will "jump" to its eject position.
- Remove the memory card.

Only MP3 files and unprotected WMA files can be read from an SD card ⇒ page 22, "WMA files

(Windows Media Audio)". Other data will be ignored.

Playable MP3 and WMA files can also be stored on the unit's hard drive ⇒ page 30.

Memory card empty or data unreadable

If you insert a memory card that does not contain any audio files, the unit will **not** change to memory card mode. In the *audio menu*, the function key on the top line of the screen remains inactive and the function cannot be selected ⇒ page 20, fig. 13.

Requirements for the memory card

The memory card slot accepts memory cards with a size of 32 mm x 24 mm x 2.1 mm or 1.4 mm.

The unit can read SD memory cards ("Secure Digital Memory Cards") and MMC memory cards ("Multimedia Cards") with a capacity of up to 2 GB.

Other memory cards that fit the slot physically, such as SDHC cards ("Secure Digital High-Capacity Memory Cards"), **cannot** be read. ◀

Audio menu

Selecting a track or an audio source

You can select a specific music track or a different audio source. You can also store audio files on the hard drive.



Fig. 15 MEDIA main menu: Audio menu.

Changing the audio source

– Press the **[MEDIA]** function selection button to open the **MEDIA** main menu. If a video source was last selected, press the **[MEDIA]** function selection button again to open the **audio menu** ⇒ fig. 15.

– In the **audio menu**, playback of the audio source that was last played resumes from the point that was last playing.

– Touch one of the function keys at the top of the screen to select the required audio source. Playback of the selected audio source will resume from the point that was last playing.

Opening a selection menu of the available audio sources

– In the **audio menu**, touch the **[Selection]** function key to view the track list of the audio source that is currently playing. The track that is currently playing is highlighted ⇒ page 25, fig. 17.



Fig. 16 Selection menu of available audio sources.

– Touch the function key **[CD]** repeatedly until the selection menu of available audio sources opens ⇒ fig. 16.

– Touch the icon of an audio source (**[CD]**, **[SD card]** or **[HDD]**) on the left of the screen to view the contents of that folder or data medium.

The **[Play]** function key appears beside audio files that can only be played back ⇒ page 26, "Audio CD/DVD: Track selection".

The **[CD]** function appears beside audio files that can be played back ⇒ page 26 or stored on the hard drive ⇒ page 30. Audio files that are stored on the hard drive can also be renamed or deleted ⇒ page 32.

An audio source that is not currently loaded with a data medium cannot be selected (⇒ fig. 16 **[CD]** beside **[SD card]**). Likewise, a video DVD that is loaded in the internal CD/DVD drive cannot be selected in the selection menu of available audio sources.

If an external CD changer¹⁴⁾ is also connected, after you touch the **[CD]** function key, you must also select the required CD/DVD drive in the following selection menu by touching a function

key ⇒ page 37, "Opening the CD selection menu".

The top line of the track ⇒ fig. 17 or folder display ⇒ fig. 18 shows the audio source:

- **"CD:"** – Internal CD/DVD drive or external CD changer¹⁴⁾.
- **"SD card"** – inserted SD memory card ("Secure Digital Memory Card") or MMC card ("Multimedia Card").
- **"HDD"** – Internal hard drive ("Hard Disk Drive").

Note

- Please also refer to the additional information on MP3 mode ⇒ page 28.
- WMA audio files (Windows Media Audio) can also be played on the unit and stored on the hard drive (HDD) provided they are not copyright protected by the DRM process (Digital Rights Management). Their operation and performance on the unit is the same as for MP3 compressed audio files, and is therefore not described separately here. ◀

Changing tracks or selecting tracks manually

*The arrow keys on the unit **[<]** or **[>]** always refer to the audio source you are currently listening to, whatever menu you are in at the time.*



Fig. 17 Track list of a playing audio CD.

Press the **[MEDIA]** function selection button to open the **MEDIA** main menu. If a video source was last selected, press the **[MEDIA]** function selection button again to open the **audio menu** ⇒ page 24, fig. 15.

Playing the previous or next track

– In the **audio menu**, briefly press the arrow keys on the unit **[<]** or **[>]**, or touch the on-screen function keys ⇒ page 24, fig. 15 **[<]** or **[>]**.



Fig. 18 Track list of a playing audio MP3 CD.

Rewind, fast forward

– Press and hold the arrow keys on the unit **[<]** or **[>]** or the on-screen function keys **[<<]** or **[>>]**.

– Release the button when the desired track has been found. ▶

¹⁴⁾ Optional equipment: Operation of the external CD changer ⇒ page 33.

Audio CD/DVD: Track selection

- Touch the $\Rightarrow$ page 24, fig. 15 **Selection** function key to view the track list of the audio source that is currently playing. The track that is currently playing is highlighted $\Rightarrow$ page 25, fig. 17.
- Select a track from the list by touching **Track ...**.
- Use the function key $\square$ to switch from the track list back to the CD selection menu¹⁵⁾ or the selection menu of available audio sources $\Rightarrow$ page 24, fig. 16.
- Using the function key $\square$ always takes you directly to the *audio menu* $\Rightarrow$ page 24, fig. 15.

MP3 files: Track selection

- Touch the $\Rightarrow$ page 24, fig. 15 **Selection** function key to view the track list that contains the track currently playing, and the subfolders contained in this folder, if any. The track that is currently playing is highlighted $\Rightarrow$ page 25, fig. 18.
- Touch another track to select it. If the track you want is in a different folder, you must search through the folder structure.
- Touch the display of a file folder to open the folder (in the figure $\Rightarrow$ page 25, fig. 18: **[F1.1]**).
- Touch the function key $\square$ to open the next higher folder. The parent folders are displayed on the title bar (in the figure "F1.1" and "F1").
- By repeatedly pressing $\square$ you can switch folder by folder until you reach the selection menu of the available audio sources $\Rightarrow$ page 24, fig. 16. You can now search for tracks, e.g. on a different audio source.

- Using the function key $\square$ always takes you directly to the *audio menu* $\Rightarrow$ page 24, fig. 15.

MP3 files: Opening the popup window for editing

- Select a track, folder or audio source for playback, as described above.
 - When you touch the function key $\square$ $\Rightarrow$ page 30, fig. 21 $\square$ beside the display of a track, folder or audio source, a popup window opens $\Rightarrow$ page 32.
 - In the popup window, touch **Play** to start playback. See also $\Rightarrow$ page 29, "Play order of MP3 files and folders".
 - The popup window can also be used to store a number of audio files on the hard drive $\Rightarrow$ page 30. Audio files that are already stored on the hard drive can also be renamed or deleted $\Rightarrow$ page 32.
- ### Repeat function
- Open the *audio menu* $\Rightarrow$ page 20.
 - Touch the **Repeat** function key.
 - In the popup window which now appears, touch **Track** to automatically repeat the current track at the end.
 - If you touch **CD** (audio CD mode) or **Folder** (MP3 mode) in the popup window, the tracks on the current CD or in the current folder will automatically repeat.

In the *audio menu* you can also change tracks by turning the settings knob $\Rightarrow$ page 2, fig. 1 ⌂ .

"CD int." appears at the top left of the screen if a data medium is being played in the internal CD/DVD drive.

The name of the artist, the album and the track can be displayed while MP3 files are playing provided this information is available as an ID3 tag. If there is no ID3 tag, the folder or file name will be shown instead $\Rightarrow$ page 28, "General information on the MP3 mode".

Some audio CDs and audio DVDs support "CD text". With these CDs/DVDs, the track name is shown instead of "Track" $\Rightarrow$ fig. 19.

Storing audio files

$\Rightarrow$ page 30, "Storing MP3 and WMA files on the hard drive (HDD)"

Random play **MIX**

The tracks of the selected audio source will be played in random order.



Fig. 19 MEDIA main menu: Audio menu.

- In the *audio menu*, touch the **Extras** function key.
- In the popup window which opens, touch **Mix**. The **Extras** function key changes to **Mix** and random play starts with the next track. All the tracks on the current audio source now play in random order.

Playing audio CDs from an external CD changer

Optional equipment: Operation of an external CD changer $\Rightarrow$ page 33.

Note

The display of the names of tracks and artists can be deactivated in "Media settings" $\Rightarrow$ page 124. $\blacktriangleleft$

- Touch the function key **Mix** to stop the function at the current track. Normal playback now resumes with the current track.

Random play remains active for the corresponding audio source until it is closed for that source.

While random play is active in MP3 mode, only the audio files in the selected folder (e.g. F1.1 in $\Rightarrow$ page 25, fig. 18) or all audio files in the selected folder in addition to audio files from all subfolders, will be played in random order in accordance with the settings $\Rightarrow$ page 124, "Media settings".

To random play all of the folders in a data medium, you must first play a music file at root directory level and then start random play. If a very large number of music files are stored on the hard drive, the image on the screen may "freeze" for a few seconds after you select the function key **Mix** and the unit will not accept any operation for this period of time. Please be patient while this is happening! The unit is checking the files you have selected for random play. $\blacktriangleleft$

¹⁵⁾ only if a CD changer is fitted $\Rightarrow$ page 37.

Scan function

All the tracks on the selected audio source are scanned for ten seconds each.

- In the *audio menu*, touch the **Extras** function key.
- In the popup window which opens, touch **Scan**. The **Extras** function key changes to **Scan**. All the tracks on the current audio source are scanned for 10 seconds each. The scan function starts with the next track.
- Touch **Scan** to stop the scan function at the current track. Normal playback now resumes with the current track.

Alternatively, you can also start and stop the scan function by briefly pushing the settings knob ⇒ page 2, fig. 1 ⑧.

The scan function remains active for the corresponding audio source until it is closed for that source.

While the scan function is active in MP3 mode, all MP3 files on the current audio source, or only the files in a selected folder (e.g. **F1.1** in ⇒ page 25, fig. 18) are scanned in accordance with the settings ⇒ page 124, "Media settings". ◀

MP3 files

General information on the MP3 mode

MP3 files can be played back from a variety of media and stored on the hard drive (HDD).

General

MP3 music files stored on data media are normally subject to national and international copyright laws. In certain countries, they may not be copied even for private use without prior consent of the copyright holder.

Please find out about relevant copyright laws and observe them.

These restrictions do not apply to compositions and recordings for which you personally hold the copyright or for which you have been granted rights.

Requirements for MP3 music files and MP3 data media

- CD-ROM, CD-R, CD-RW with a capacity of 650 MB and 700 MB.
- DVDs with a capacity of up to 4.7 GB and double-layer DVDs with a capacity of up to 8.5 GB.
- SD memory cards ("Secure Digital Memory Cards") and MMC memory cards ("Multimedia

Cards") with a size of 32 mm x 24 mm x 2.1 mm and a capacity of up to 2 GB.

- The CDs/DVDs must comply with the ISO 9660 Level 2 standard and the Joliet file system (single-session and multi-session).
- File names are restricted to 64 characters.
- The folder structure is limited to a maximum of 8 folder levels.
- The name of the artist, the album and the track can be displayed while MP3 files are playing provided this information is available as an ID3 tag. If there is no ID3 tag, the folder or file name will be shown instead.
- Play lists are not supported.
- WMA files (Windows Media Audio) can also be played provided they are not copyright protected by the DRM process (Digital Rights Management). The unit does not support WMA files protected in this way.
- The operation and performance of playable WMA files is the same as for MP3 files, and so is not described separately here.

Bit rate

- The unit supports MP3 files with bit rates of between 32 and 320 kBit/s and MP3 files with variable bit rates.
- The display for the track running time may be incorrect for files with a variable bit rate.

WARNING

Please refer to ⇒ page 19, "General information on CD/DVD mode" and ⇒ page 53, "Im-

WARNING (continued)

portant information on operating the CD player".

Note

- The display of the names of tracks and artists can be deactivated in "Media settings" ⇒ page 124.
- Please observe the copyright laws applicable in your country.
- Please also refer to the additional information on MP3 mode ⇒ page 28. ◀

Play order of MP3 files and folders

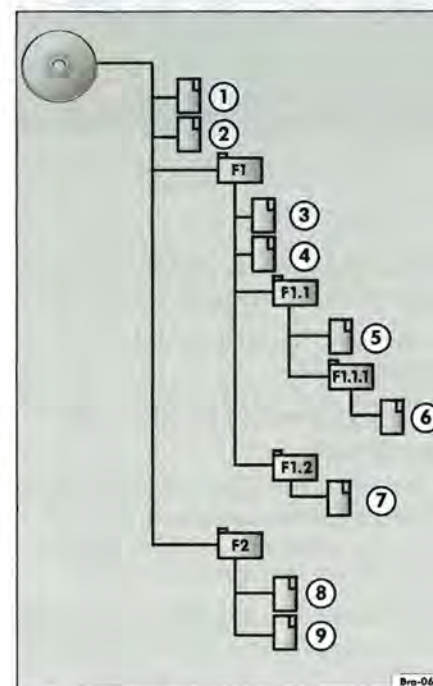


Fig. 20 Possible structure on an MP3 CD.

The unit plays the MP3 files stored on a data medium in a certain order. The illustration shows a typical MP3 CD that contains tracks (□), folders (▢) and subfolders. Whether MP3 files from all folders and subfolders will be played can be

specified in the setup ⇒ page 124, "Media settings".

- Play starts with the first track in the "root directory" on the CD. In the example there are two tracks ① and ② in the root folder.
- Once the tracks in the root directory have been played, the unit will access the folders in the order in which they are arranged on the data medium. In the example shown here, there are two main folders in the root directory: **F1** and **F2**. The folder **F1** is in the first position in the root folder, so tracks ③ and ④ are played immediately after the tracks in the root folder.
- Once the tracks in the first folder have been played, the unit will access subfolders in that folder in the order in which they are arranged on the data medium. In the example, folder **F1** contains two subfolders: **F1.1** and **F1.2** as well as another subfolder **F1.1.1** within **F1.1**. The player first plays all the tracks ⑤ in subfolder **F1.1** ⇒ page 30, fig. 21, then changes to subfolder **F1.1.1** and plays the tracks in that subfolder ⑥. Once all the tracks in sub-folder **F1.1.1** have been played, the unit changes to sub-folder **F1.2** and plays the tracks stored there ⑦. If there are more subfolders within **F1.2**, the unit changes to those folders as described above, and plays the tracks stored in them.
- Once all the tracks in the first main folder (and its subfolders) in the root folder have been played, the tracks in the next main folder are played in the order described. In the example, these are tracks ⑧ and ⑨ in folder **F2**.

- Use the **[Selection]** function key to open the track list from the *audio menu*. In the track list ⇒ page 30, fig. 21 the track that is currently playing is highlighted. The name of the current

main folder appears on the title bar together with the current subfolder, if applicable. If the track is in the root directory on the data medium, only the type of medium is displayed. ◀

Storing and editing audio files (HDD)

Storing MP3 and WMA files on the hard drive (HDD)

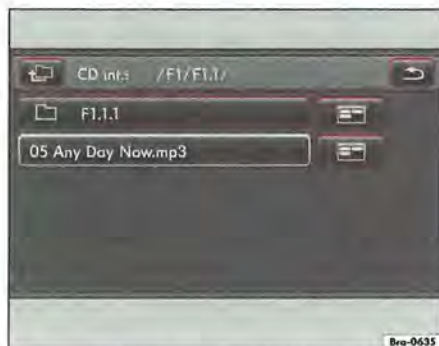


Fig. 21 Track list of a playing audio MP3 CD.

The function key **[Selection]** appears next to storable tracks or folders in the track list and in the selection menu of available audio sources.

Selecting tracks or folders to be stored

- Browse the available audio sources by tracks or folders which you wish to store on the hard drive ⇒ page 26. In the selection window of available audio sources you can also select the entire contents of an inserted data medium for storage on the hard drive ⇒ page 24, fig. 16.
- When you touch the function key ⇒ fig. 21 **[Selection]** beside the display of a track or folder, a popup window opens.
- In the popup window, touch **[Play]** to start playback.
- In the popup window, select **[Copy]** to store the required track or folder to your hard drive.



Fig. 22 Storing MP3 files.

- Press **[Continue]** in the pop-up window to confirm that you have seen the message.
- The “HDD” menu (hard disk drive) opens ⇒ fig. 22.

Selecting a memory location and storing tracks

- Select **[Enter file/folder]** to store the track or folder directly on the top level, the hard drive's root directory. See also ⇒ page 29, “Play order of MP3 files and folders”.
- Or select an existing folder by touching it (in the illustration ⇒ fig. 22: **[MP3-CD 01]**).
- Alternatively, select **[New folder]** if you wish to create a new folder for the track or folder. Enter a name for the new folder in the follow-on menu ⇒ page 11, “Input mask for free text input”. The folder you have just created is opened and the name you gave it appears on the title bar. ▶

- Here you can create another folder (a folder can have up to seven subfolders) or store the selected track or folder in the currently displayed folder. Touch the function key **[Selection]** to open the next higher folder.

- Select the function key **[Insert file/folder here]** to store the track or folder at the selected position.

- When you touch **[Insert file/folder here]**, a popup window opens. The number of tracks still to be copied is displayed. Touch **[Cancel]** to stop storing at the currently stored track. The popup window closes automatically once storing is complete.

It takes around 40 minutes to store 100 music tracks of average length (3-5 minutes).

If the unit is switched off while storing is in progress, storing will be cancelled with the last fully stored track.

Functions and progress display during the storage operation

While audio files are being stored you can still listen to tracks on this or a different audio source.

File names up to 32 characters long can be displayed.

Note that the **[Selection]** function key in the *audio menu* is disabled during storage. If you touch the **[Selection]** function key, a popup window opens instead of the selection menu and shows the progress of the storage operation. If you touch **[Cancel]** in the popup window, the storage operation will stop at the last completely stored track. Press the **[MEDIA]** function selection button twice to close the popup window and resume storing.

In the *audio menu* you can now select a different audio source using the function keys at the top ⇒ page 21, “Selectable audio sources in the Audio menu”.

To change tracks, use the arrow keys on the unit or in the *audio menu*.

Some functions, such as fast forward and re-wind, have only limited availability while storing is in progress.

Note

Only WMA audio files (Windows Media Audio) that are not copyright protected by the DRM process (Digital Rights Management) can be stored on the hard drive (HDD). ◀

Editing stored audio files (tracks) and folders



Fig. 23 Selection menu of available audio sources.

Selecting tracks or folders

- Open the selection menu of the available audio sources ⇒ page 24.
- Touch the function key ⇒ fig. 23 **[HDD]** to view the tracks and folders stored on the hard drive.
- Select the track or folder you wish to edit. Touch the display of a folder ⇒ fig. 24 **[Name]** to open it. Touch the function key **[>]** to open the next higher folder. The names of the currently open folders appear on the title bar.
- Touch the function key **[E]** next to the display of the track or folder you wish to edit. A popup window opens.



Fig. 24 Stored audio files (tracks) and folders on the hard drive.

- In the popup window you can start playback, or you can copy, rename or delete the track or file.

Function keys in the popup window:

[Play] – starts the playback of the selected track or folder ⇒ page 29, "Play order of MP3 files and folders".

[Copy] – saves a copy of the track or folder ⇒ page 30, "Selecting a memory location and storing tracks".

[Rename] – opens an input template where you can rename the track or folder ⇒ page 11, "Input mask for free text input".

[Delete] – deletes the selected track or folder when you confirm a prompt. ◀

External CD changer

Applies to vehicles: with an external CD changer

Operating the external CD changer

As well as the internal CD/DVD drive, an external CD changer can be connected for playing up to six audio CDs. You do not have to load all the slots in the CD changer.

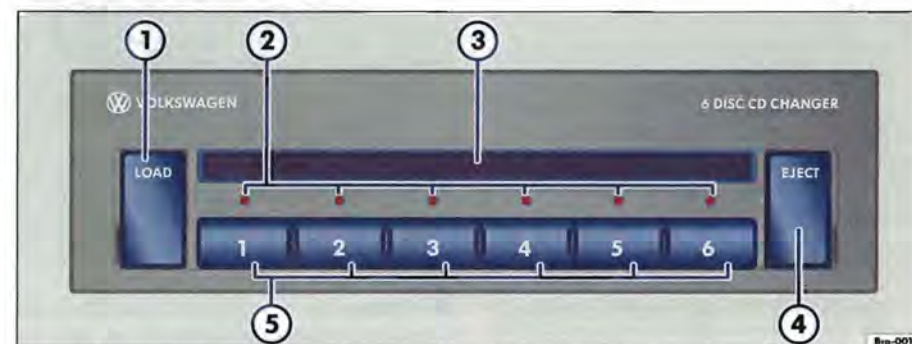


Fig. 25 External CD changer.

Depending on the model, the external CD changer is located in the glove compartment or in the armrest between the two front seats ⇒ Booklet 3.1 "Operation".

Loading CDs

- Briefly press the **[LOAD]** button. The LED ⇒ fig. 25 ② above the next free CD slot will start to flash slowly. It shows which CD slot is being prepared.
- Wait until the LED starts to flash quickly.
- Insert a standard 12 cm audio CD with the unprinted side facing the buttons ① to ⑥ into the CD slot until it is automatically pulled in ⇒ ⑤.

Ejecting CDs from the external CD changer

- If you wish to eject the CD which is being played in the CD changer, briefly press ⇒ fig. 25 **[EJECT]**.

- If none of the CDs in the CD changer is being played, press **[EJECT]** and then one of the buttons ① - ⑥ to select the CD you wish to eject.

Operation using the Radio Navigation System

- You select the CDs in the external CD changer directly via the radio navigation system ⇒ page 37.

If a CD in the external CD changer is being played, you can select a CD directly on the CD changer by pressing one of the buttons ① to ⑥. If a CD slot contains a CD, the LED ② above the button will light up.

The LEDs above the buttons ⑤ indicate the status of the corresponding CD slot.

- CD slot empty; the LED is off.
- CD slot being prepared; the LED flashes slowly.
- CD slot ready; the LED flashes quickly. CD can be inserted.

– CD slot is loaded; the LED is lit continuously.

Quick loading

Press and hold $\Rightarrow$ page 33, fig. 25 **LOAD** for more than three seconds to load all free CD slots one after the other.

All free slots in the CD changer will be prepared automatically and can then loaded one after another.

Ejecting all CDs

To eject all of the CDs from the CD changer, press and hold the **EJECT** button for more than three seconds.

All CDs in the CD changer will then be ejected one by one. If a CD is not removed from the eject position, CD ejection will stop and the CD will be pulled back into the changer after around 15 seconds.

WARNING

The risk of injury during a sudden braking manoeuvre or in an accident is increased if the glove compartment cover or armrest is open.

- Always keep the glove compartment cover or armrest closed while the vehicle is in motion to reduce the risk of injury during a sudden braking manoeuvre or in the event of an accident.

WARNING

The CD changer is also a class 1 laser product. If it is opened, or is faulty or damaged, there is a risk of invisible laser beams escaping from the unit. The CD changer contains no user-serviceable parts. Repairs should therefore only be carried out by an authorised dealer.

- Please refer to $\Rightarrow$ page 19, "General information on CD/DVD mode" and $\Rightarrow$ page 53, "Important information on operating the CD player".

Caution

- Always insert the CDs in the CD changer with the unprinted side to the buttons ① to ⑥.
- Before closing the glove compartment or armrest, check that the CD has been inserted properly or removed. The CD changer or the CD could otherwise be damaged.

Note

- The next free slot will automatically be selected if you do not select one after pressing the **LOAD** button.
- A CD will be pulled back into the player to prevent damage if it is not removed from the eject position within 15 seconds.
- MP3 CDs and audio DVDs cannot be played.
- You may not be able to play copy-protected CDs or CD-Rs and CD-RWs which you have burned yourself. ◀

Applies to vehicles: with an external CD changer with magazine

Operating the external CD changer with magazine

This external CD changer contains a CD magazine which loads CDs into the changer.

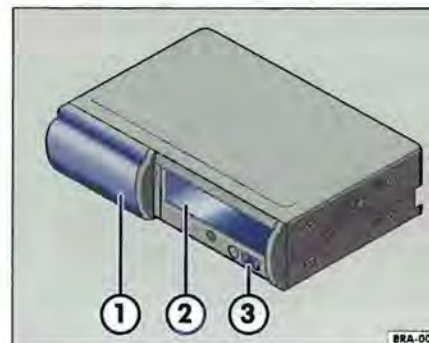


Fig. 26 CD changer.

The external CD changer with magazine is located on the right-hand side of the luggage compartment or under the front passenger seat.

Removing and inserting the magazine

- Push the CD slot release $\Rightarrow$ fig. 26 ① up fully to gain access to the magazine.
- Press the button ③ to eject the magazine. The magazine is ejected.
- Load the magazine as described $\Rightarrow$ page 36.
- Insert the loaded magazine $\Rightarrow$ fig. 27 ④ into the changer with the word "disc" facing up until it reaches the stop. The arrow on the magazine must point towards the magazine slot.
- Close the CD slot release fully.

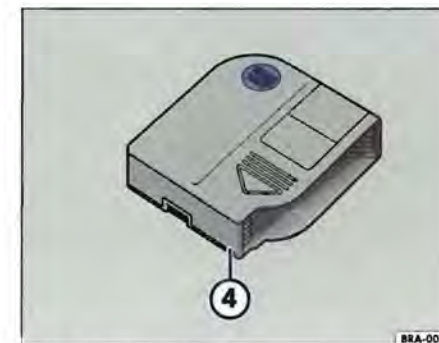


Fig. 27 CD magazine.

Operation using the Radio Navigation System

– CDs in an external CD changer with magazine are selected directly via the radio navigation system $\Rightarrow$ page 37.

WARNING

The CD changer is also a class 1 laser product. If it is opened, or is faulty or damaged, there is a risk of invisible laser beams escaping from the unit. The CD changer contains no user-serviceable parts. Repairs should therefore only be carried out by an authorised dealer for safety reasons.

- Please refer to $\Rightarrow$ page 19, "General information on CD/DVD mode" and $\Rightarrow$ page 53, "Important information on operating the CD player".

Note

The CD slot cover should always remain closed after the magazine has been inserted. This will stop dust entering the magazine. ◀

Applies to vehicles: with an external CD changer with magazine

Operating the CD magazine

The CD magazine can hold up to six CDs, but does not always have to be completely full.

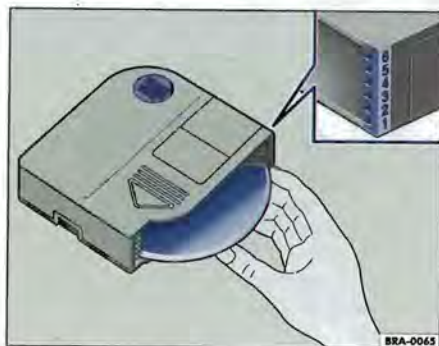


Fig. 28 Inserting CDs.

Inserting CDs

- Hold the CD by its centre hole and outer edge so that the **printed side is facing up**.
- Load the CDs one at a time into the magazine by sliding each CD in straight until you hear it engage properly. When doing this, hold the magazine with the word "disc" facing up.
- The order of the CDs can be seen on the right-hand side of the magazine ⇒ fig. 28.

Removing CDs

- Turn the magazine so that the release lever is facing up ⇒ fig. 29.

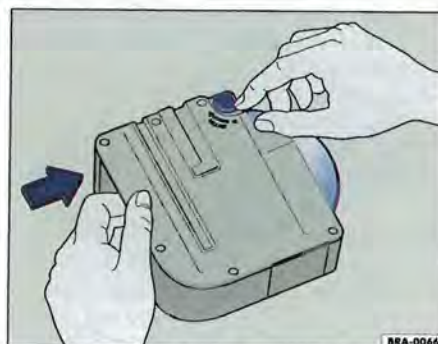


Fig. 29 Removing CDs.

- Turn the release lever against the spring pressure.
- Press the CD gently out through the opening at the rear of the magazine.

Caution

Refer to the notes on handling CDs ⇒ page 54.

Note

- MP3 CDs and audio DVDs cannot be played.
- You may not be able to play copy-protected CDs or CD-Rs and CD-RWs which you have burned yourself. ◀

Applies to vehicles: with an external CD changer

Selecting CDs in an external CD changer on the Radio Navigation System



Fig. 30 Audio menu.

Opening the CD selection menu

- Press the **[MEDIA]** function selection button to open the **MEDIA** main menu. If a video source was last selected, press the **[MEDIA]** function selection button again to open the **audio menu**.
- Playback of the audio source that was last played is continued in the **audio menu** ⇒ fig. 30.
- If the unit is not in CD mode, touch the **[CD]** key on the top line of the screen.
- Touch the **[Selection]** function key to view the track list of the CD that is currently playing ⇒ page 26, "Audio CD/DVD: Track selection".
- Touch the function key **[CD]** repeatedly until the CD selection menu opens ⇒ fig. 31.

Selecting a CD

- Select a CD from the CD changer **[@CD 1: ...]** to **[@CD 6: ...]** by touching **[PLAY]** next to the required option.



Fig. 31 CD selection menu.

- Touching one of the function keys **[@CD 1: ...]** to **[@CD 6: ...]** directly opens the track list of that CD ⇒ page 25, "Changing tracks or selecting tracks manually".

A CD drive with no CD in it is indicated by "**<Empty>**" and the function key next to the option is inactive.

The top option **[Interne: ...]** on the CD selection menu activates a CD or DVD loaded in the internal CD/DVD drive.

[Mix] – random playback

The audio tracks on a CD will be played in random order ⇒ page 27, "Random play".

[Scan] – scan function

All the audio tracks on a CD are scanned for ten seconds each ⇒ page 28, "Scan function".

Note

CDs and DVDs that cannot be read by the connected CD changer are also not available for selection in the CD selection menu of the radio navigation system (display: "**<Empty>**" ⇒ fig. 31). ◀

Video DVD mode

Notes on video DVDs



Fig. 32 MEDIA main menu.

General information

Video DVDs are usually subject to national and international copyright laws. In certain coun-

tries, they may not be copied even for private use without prior consent of the copyright holder.

Please find out about relevant copyright laws and observe them.

These restrictions do not apply to recordings for which you personally hold the copyright or for which you have been granted rights.

Note

- Video CDs cannot be played.
- You may not be able to play Video-DVDs which you have burned yourself.
- The video image on the screen of the radio navigation system is only displayed when the vehicle is stationary. The screen is switched off while the vehicle is in motion, but the sound can still be heard. ◀

Inserting and starting video DVDs



Fig. 33 Menu: Playing a video DVD.

Inserting a video DVD

- Insert a video DVD with the printed side facing up into the CD/DVD slot to the point where it is automatically pulled in ⇒ page 22, "Inserting and ejecting CD/DVDs".

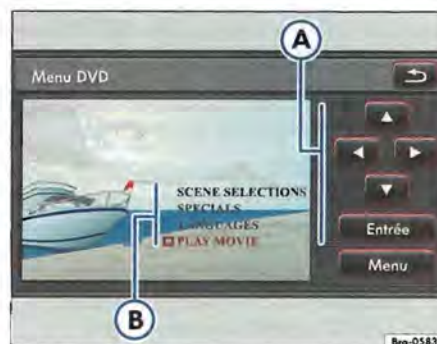


Fig. 34 DVD menu options of the inserted film.

- The DVD starts automatically. It can take a few seconds for the DVD to be read - the screen stays dark while this is happening, so please be patient.

- The "Intro" stored on the video DVD (a short introductory sequence) is played. Wait until the Intro has finished and the film's menu options appear with the unit's own menu prompts ⇒ page 38, fig. 34. The film's menu options cannot be controlled directly by touching the screen - instead they are operated using the function keys in the unit's own menu control system (A) to the right of the film options (B).

- Depending on the inserted video DVD, you may have to open the unit's menu control system manually.

Opening and operating the menu control

- Briefly touch the screen to show the *video DVD menu* ⇒ page 38, fig. 33.
- Touch (Menu) to open the unit's menu control system ⇒ page 38, fig. 34.
- Now select one of the arrow keys on the right (A) to move the pointer in the desired direction around the film's menu options (B).
- Once you have highlighted the required option, select the (Enter) function key to activate it.

- Make all the desired settings available in the film's menu.
- Start the film by selecting the required option from the film's menu selection (B).
- The film starts and the unit switches to full-screen view.

Full-screen view

- In full-screen view, all buttons are hidden. Briefly touch the screen to see the *video DVD menu* again ⇒ page 40.
- If you now touch inside the free area of the screen again, the *video DVD menu* will be hidden again. The *video DVD menu* is hidden automatically after 15 seconds of inactivity.

Aspect ratio (4:3 or 16:9)

The film starts to play in the default aspect ratio (4:3 or 16:9). The aspect ratio is changed in the setup menu ⇒ page 126, "Video settings".

Note

The visual appearance of a film's menu selection and the options and settings which it offers is the responsibility of the DVD manufacturer. The DVD manufacturer is also responsible for the different ways in which individual films respond to identical commands. ◀

The video DVD menu

While a film is being played, you can change settings in the video DVD menu, and you can switch to another scene on the current video DVD or to a different audio or video source.



Fig. 35 Video DVD menu.

If the screen is in full-screen mode while a film is running, briefly touch the screen to see the video DVD menu ⇒ fig. 35. The video DVD menu offers you the following options:

Switching between audio and video function

– In the video DVD menu, touch the ⇒ fig. 35 [Audio] function key to switch to the audio menu ⇒ page 20, fig. 13.

Opening the unit's own menu control

– In the video DVD menu, touch the [Menu] function key to open the unit's own menu control ⇒ page 38, fig. 34. A film that is running is switched back to its menu selection ⇒ page 39, "Opening and operating the menu control".

– Touch [Stop] to close the unit's menu control system. The view changes back to full-screen mode. Depending on the file structure of the inserted DVD, the film will stop in its menu selection or playback will resume from the point where it stopped.

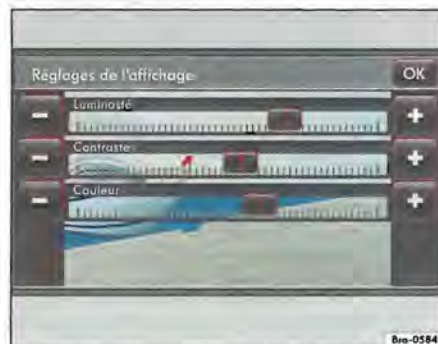


Fig. 36 Display settings.

Changing display settings

– In the video DVD menu, touch the [Display] function key to adjust the brightness, contrast or colours of the film displayed on the screen. A slide control [Slider] is provided for each setting option ⇒ fig. 36.

– Press your finger against a slider [Slider] and move it along the scale without taking your finger off. The film's appearance will change in the background accordingly.

– Alternatively, press the [+] or [-] key next to the slider to change the setting incrementally. These settings will not affect the display in any other menus.

Opening chapter selection

– In the video DVD menu, touch the [Chapter] function key while a film is running to view a list of chapters on the video DVD. The current chapter is at the top, with all the following chapters underneath.

– Touch the display of a chapter directly (e.g. [Chapter 3]). Film playback continues from the beginning of the selected chapter. ▶

– Select [Stop] to return to the film without selecting another chapter.

– Alternatively you can change the current chapter by touching the arrow keys on the unit or in the video DVD menu, or by turning the settings knob [8].

To adjust the screen display for all functions, go to the main Setup menu and select [Display] ⇒ page 120.

Function keys used to control the current audio or video source

[Left Arrow] – touch briefly to go to the beginning of the current chapter, touch again to go to the beginning of the previous chapter.

[Right Arrow] – touch briefly to go to the beginning of the next track or chapter.

[Pause] – Pause function: playback is paused at the current point - the icon changes to [Pause], – touching [Play] resumes playback from that point.

Other function keys in the Video DVD menu

[AV] – changes to an optionally connected external video source¹⁶⁾.

[TV] – changes to TV mode¹⁷⁾.

[DVD] – changes to a video DVD loaded in the internal CD/DVD drive.

Note

- The film's menu selection ⇒ page 38, fig. 34 [8] cannot be operated on the touchscreen, it can only be operated using the unit's own menu control [A].
- The visual appearance of a film's menu selection and the options and settings which it offers is the responsibility of the DVD manufacturer. The DVD manufacturer is also responsible for the different ways in which individual films respond to identical commands. ◀

¹⁶⁾ Optional equipment

¹⁷⁾ only when a TV tuner is fitted (optional equipment) ⇒ page 42

TV mode

Applies to vehicles: with TV receiver

Explanation of technical terms

The TV receiver in the radio navigation system is equipped with a "hybrid receiver" capable of receiving both analogue and digital TV stations via the vehicle aerial.

"Universal TV" or DVB-T¹⁸⁾

Analogue TV stations that can be received everywhere by domestic aerials are becoming less frequent as a result of advances in digital transmission technology. The quality offered is often not acceptable today. It has still been used for in-car applications, however, as digital TV reception relied on a fixed cable connection (DVB-C) or a directional satellite dish (DVB-S).

In DVB-T, digital TV signals are transmitted terrestrially¹⁹⁾ and can be received by an aerial. DVB-T provides high quality mobile reception without the need for a fixed aerial connection. DVB-T is also known as "universal TV".

The advantages of DVB-T

Digital television offers considerably higher quality than analogue television. Digital transmission technology is also far better able to utilise the transmission capacity of a television station than analogue signals. Digital terrestrial broadcasting provides many more channels than analogue broadcasting as signals can be combined in a single stream ("multiplexing"). The transmission capacity can also be used for additional services such as electronic TV guides²⁰⁾ and radio broadcasts.

"Hybrid receiver" for analogue and digital reception

DVB-T is currently not available in all areas, and the unit in the vehicle still relies on an analogue TV receiver. For this reason, a hybrid receiver²¹⁾ has been developed for the unit, consisting of a conventional analogue TV receiver and a DVB-T receiver.

Availability of DVB-T and functional description of the "hybrid receiver"

In areas where DVB-T is available, analogue TV is gradually being phased out. This means that in some areas only digital or only analogue TV may be available. In some areas both analogue and digital TV are available.

In areas that do not have DVB-T, only analogue TV is available with the corresponding restrictions.

Display of analogue and digital TV stations

The TV station that is being received is shown in the display of the combi-instrument and also on the screen of the radio navigation system when you change over and activate the TV menu. Analogue and digital TV stations are shown in different ways and are identified on the screen by "Analogue" or "DVB-T" ⇒ page 44, "Displays in TV mode".

Note

- Information about the current channel and digital TV stations in areas with DVB-T can be found on the internet (e.g. at www.ueberallfernsehen.de) and is also available from your local TV retailer.
- The video image on the screen of the radio navigation system is only displayed when the vehicle is stationary. The television screen is switched off while the vehicle is in motion, but the sound can still be heard.
- If the digital TV signal is very weak, there could be temporary interruptions in the picture and sound (display:  and ).

¹⁸⁾ DVB-T = digital video broadcasting - terrestrial

¹⁹⁾ Digital terrestrial television is broadcast entirely using earthbound circuits.

²⁰⁾ also known as EPG (electronic programme guide).

²¹⁾ A "hybrid receiver" uses both analogue and digital technology. A "receiver" is also known as a tuner.

Applies to vehicles: with TV receiver

Overview

Analogue and digital TV stations can be displayed.



Fig. 37 TV menu over the TV image.

The TV image is only displayed when the vehicle is stationary. The television screen is switched off while the vehicle is in motion, but the sound can still be heard.

Starting TV Mode

- Press the **[MEDIA]** function selection button to go to the **MEDIA** main menu. Playback of the media source last played is resumed.
- Use the **[MEDIA]** function selection button to switch between the last audio and the last video source.
- In the **video DVD menu**, touch the screen to open the video DVD menu ⇒ page 40, fig. 35.
- Select function key **[TV]** to start TV mode. The TV channel that you last selected appears in the default aspect ratio and in full-screen display mode.

Show or hide TV menu

- While in TV mode, briefly touch the screen to show the **TV menu** over the TV image ⇒ fig. 37.

- If you now touch inside the free area of the screen again, the **TV menu** is hidden again. The **TV menu** is hidden automatically after 15 seconds of inactivity.

The TV image is displayed on the screen of the radio navigation system. The sound is relayed via the vehicle's loudspeakers.

The aspect ratio in full-screen mode (4:3 or 16:9) and other settings, as well as changes to the current TV standard, are made in the appropriate setup menu ⇒ page 51, "TV settings".

Hardkeys in TV mode

⇒ page 2, fig. 1  or  - goes to the next stations on the station list.

Settings knob ⇒ page 2, fig. 1  - turn the knob to select a TV channel or digital TV station manually.

Function keys in the TV menu

 or  - goes to the next TV stations on the station list, similar to the arrow keys on the unit ⇒ page 2, fig. 1 .

[Audio] - changes to the **audio menu** and plays the last selected audio source.

[Station list] - opens the list of analogue TV stations and digital TV and radio stations that can currently be received ⇒ page 45.

[Memory] - opens the memory list of manually stored analogue TV stations and digital TV and radio stations ⇒ page 47.

[Extras] - opens a popup window where other functions can be activated.

Popup window **[Extras]**

[T-TXT] - opens the teletext page for the currently selected TV station if teletext is available for that station ⇒ page 49.

[Display] - shows the menu for changing the display settings. Proceed as already described in the section on video DVD mode ⇒ page 40, "Changing display settings".

[EPG] – opens the overview of the electronic programme guide if digital TV stations can be received locally on DVB-T ⇒ page 50.

[Manual] – changes over to manual selection of a TV channel using the arrow keys on the unit or on the screen of the TV main menu ⇒ page 46, “Manual station selection with the arrow keys”.

Selectable video sources in the Video DVD menu

[AV] – changes to an optionally connected external video source²²⁾.

[TV] – changes to TV mode.

[DVD] – changes to a video DVD loaded in the internal CD/DVD drive ⇒ page 38.

Displays in TV mode

Each time you switch stations, the *TV menu* is displayed for a few seconds with information about the current station. Any additional information that is displayed will depend on the type of station (analogue or digital) and the services it supports ⇒ page 42, “Display of analogue and digital TV stations”.

The top right corner of the screen shows whether a digital TV station “DVB-T” or an analogue channel “Analog.” is currently selected. If a DVB-T radio station is selected, the screen shows “Radio”.

With analogue TV stations, the station ID can only be displayed if the station provides one. Otherwise only the channel number is shown.

With digital TV stations broadcast via DVB-T, an electronic programme guide provided by the station can also display the name of the current programme and its running time ⇒ page 43, fig. 37. Activate the electronic programme guide (EPG) to open a programme overview for all the digital TV stations which you can receive ⇒ page 50, “Electronic Programme Guide (EPG)”.

The top left corner of the screen shows whether the current TV station is transmitting audio signals in “stereo” or “mono”.

Some TV channels offer bilingual programmes in “two-channel sound”. In *Video settings* you can choose which voice channel, i.e. language,

you want to listen to. “CH A” or “CH B” will appear in the top left of the screen ⇒ page 43, fig. 37.

A stereo broadcast is also indicated by the icon “ ” on the right of the screen under the **[TV]** function key. A programme broadcast in two-channel sound is indicated by the icon “ ” in the same position ⇒ page 43, fig. 37. Select the audio channel in the TV setup ⇒ page 51, “Selecting audio channel for two-channel sound”.

If a TV channel also transmits teletext, this is indicated by “TT” at the top right of the screen. If teletext is not available for the current channel, “ ” is displayed when the teletext function is selected.

If the selected digital TV station supports the electronic programme guide, this will be indicated by “EPG” at the top right of the screen. If EPG is not generally available in your area, only “ ” will appear when you attempt to select the EPG function via the **[Extras]** function key.

Changing the TV standard when travelling abroad

If you travel abroad, you may have to set the TV standard to the standard for the country you are visiting ⇒ page 51.

WARNING

Please keep your attention on driving at all times. Accidents and injuries can occur if the driver is distracted.

- Do not allow yourself to be distracted from the road by making settings on the unit or using the unit itself.
- Please only use the unit when the road, weather and traffic conditions are such that it is safe to do so.
- The volume settings should be selected so that warning signals from outside the vehicle, e.g. police or fire brigade sirens, can be heard at all times.

Note

- The television screen is switched off automatically while the vehicle is in motion, but the sound can still be heard.

- If a TV station can no longer be received, the icons for “sound off” and “no reception” are displayed on the screen.

Applies to vehicles: with TV receiver

Selecting TV stations

The unit is constantly scanning the TV station ‘landscape’. You can use the arrow keys on the unit to browse through all of the TV stations you can receive.



Fig. 38 TV menu with digital TV station (DVB-T).

Start TV mode ⇒ page 43, “Starting TV Mode”. Touch the screen to open the *TV menu* ⇒ page 43.

“Browsing TV stations”

- Briefly press the arrow keys on the unit ⇒ page 2, fig. 1 **[◀]** or **[▶]** to go to the previous or next TV station. Depending on the settings in the *Video settings* menu, you will go to a TV station from the list of locally available stations, or to a station from the memory list ⇒ page 121.
- The *TV menu* with information about the current station is shown when you change stations ⇒ fig. 38.
- In the *TV menu* you can also switch stations by touching the on-screen arrow keys ⇒ fig. 38 **[◀]** or **[▶]**.



Fig. 39 TV station list with three digital and two analogue TV stations.

Selecting TV stations from the station list

- Touch the **[Station list]** function key in the *TV menu* to view a list of all of the TV stations which you can currently receive. The list “jumps” straight to a view of the TV station that is currently selected. This is highlighted in the list ⇒ fig. 39.
- Move the slider in the scroll bar down to see more stations. See also ⇒ page 46, “Display order on the station list”.
- Touch the required TV station to select it. The selected station is displayed in the *TV menu*. Touch inside the free area of the screen to manually hide the *TV menu*.
- The station list closes automatically after about 20 seconds of inactivity.

²²⁾ Optional equipment

Selecting TV stations manually with the settings knob

- In TV mode you can also select all TV channels and digital TV stations manually.
- When you turn the settings knob in TV mode, the TV channels are displayed in order on the frequency band, whether they are in use or not.
- Briefly push the settings knob to end manual frequency selection.

Manual station selection with the arrow keys

- Instead of selecting a TV channel manually with the settings knob, you can touch the screen once in TV mode to open the *TV menu*.
- Touch the **[Extras]** function key to open a popup window ⇒ page 49, fig. 41.
- In the popup window, select **[Manual]**. The **[Extras]** key in the *TV menu* changes to **[Manual]** and the popup window closes.
- Press the arrow keys on the unit or touch the on-screen arrow keys to view all TV channels and digital TV stations one by one in their order on the frequency band.
- In the *TV menu*, touch the **[Manual]** function key to close the function. The arrow keys can now only select the receivable stations on the station or memory list.

Each time you switch stations, the *TV menu* is displayed for a few seconds with information about the current station.

Selected TV station after a change of location

After a change of location, the unit attempts to “look for” the last selected TV station by means of the station ID. If no digital TV stations are available at the new location, then depending on the setup, the unit also searches for the analogue ID of that station, and vice versa ⇒ page 52, “Making settings for “station tracking””.

However, the unit relies on the ID of the station that it is looking for being absolutely identical. If the particular station transmits an ID that is different from region to region, the unit will not find the last selected TV station at the new location.

Display order on the station list

Digital TV stations that can be received by DVB-T are displayed at the top of the station list, followed by the analogue TV stations with their station ID and then the analogue TV stations with no station ID (only the channel number is shown).

Note

- When you switch over, the station and programme information is shown differently for the analogue and digital TV stations ⇒ page 44, “Displays in TV mode”.
- Any radio stations that can also be received via DVB-T at the new location will be found at the bottom of the list after the analogue TV stations with no station ID ⇒ page 45, fig. 39.
- If the digital TV signal is very weak, there could be temporary interruptions in the picture and sound (display:  and ).

Applies to vehicles: with TV receiver

Memory list

You can store TV stations in the memory list.



Fig. 40 Memory list with three digital and one analogue TV station.

Start TV mode ⇒ page 43, “Starting TV Mode”. Touch the screen to open the *TV menu* ⇒ page 43.

Storing TV stations

- In the *TV menu*, touch the ⇒ page 45, fig. 38 **[Memory]** key to open the memory list.
- The memory list shows the currently selected TV station in the top line of the screen ⇒ page 14, fig. 9. Previously stored TV stations and all the available memory locations are displayed in a list below. To view all of the memory locations, move the slider at the right of the screen down.
- Touch the ⇒ page 14, fig. 9 **[Save]** function key to store the displayed TV station (“TV Digital 15” in this example) at a memory location.
- In the *Memory list* menu, select a memory location from the list by touching it. If you select a memory location where another station is already stored, the other station will be overwritten.

- Touch  to open the memory list. You can now select another TV station and store it as described ⇒ page 45.

Calling up stored stations

- In the *TV menu*, touch the ⇒ page 45, fig. 38 **[Memory]** key to open the memory list. If the currently selected station is stored in the list, the list will “jump” straight to the view of that station.
- Touch the required TV station to select it. The selected station is displayed in the *TV menu*. Touch inside the free area of the screen to manually hide the *TV menu*.
- The memory list closes automatically after about 20 seconds of inactivity.

Deleting stored stations

- Open the memory list as described.
- Touch the function key ⇒ fig. 40  beside the station you wish to delete.
- Confirm the security check by touching **[Delete]** to permanently remove the station from the memory list.
- You can also simultaneously delete all of the TV stations that are stored in the memory list ⇒ page 52, “Deleting the TV memory list”.

Depending on the setup, only stations from the memory list are retrieved with the arrow keys on the unit or on screen ⇒ page 121.

Please note that many more stations are available in regions with digital TV than in regions with analogue TV. This means that some digital TV stations are not available as analogue stations. If this is the case, a digital TV station will not be displayed in a region with analogue TV only (display:  and ).

When a TV station is stored, either the “station ID” (the name transmitted by the TV station) is

stored or if no name is transmitted, the channel number on which that TV station broadcasts at your location. This will determine whether the unit can find the stored TV station at a different location later on.

TV station stored with station ID

If you are at a different location with a different channel 'landscape', the unit uses the station's ID to try and "find" it at its new channel and to display it after opening the memory location.

If the station ID of the stored TV station cannot be found at the new location, or if a digitally stored TV station is only available as an analogue station or vice versa, a popup window opens to tell you that the programme you are looking for is not available.

Confirm the message with **[OK]** and consult the station list to see whether the required TV station may be broadcasting under a different regional name or is available in analogue or digital form. Alternatively, select another station from the station list ⇒ page 45.

TV station stored under a channel number

If a TV station that has no ID has been stored under the channel number with which it has broadcast at one location, you may find that a

different station is broadcasting on that channel at another location. In this case the TV station broadcasting with that channel number at the new location will be displayed when the memory location is selected.

If no TV stations are broadcasting on that channel, then no station will be displayed when the memory location is selected, and the icons **[T]** and **[T]** for poor reception will appear on the screen.

Station selection in border areas

TV stations from a different country which broadcast using a different TV standard and can be received in areas close to the border can also be stored in the memory list.

If you are travelling abroad for longer periods, it is advisable to set the TV standard to the country in which you are travelling ⇒ page 51, "Changing the TV standard".

Note

The way in which TV stations and stations families broadcast their IDs is the responsibility of the particular station. If the same TV station uses different IDs for different regions, the unit may be unable to find it. ◀

Applies to vehicles: with TV receiver

Viewing teletext

If the selected TV station provides teletext, this will be indicated by "TT" at the top right of the TV menu.



Fig. 41 Popup window for selecting other functions.

Start TV mode ⇒ page 43, "Starting TV Mode".

Opening a teletext page

- In TV mode, touch the screen once to open the *TV menu*.
- Touch the **[Extras]** function key to open the popup window ⇒ fig. 41.
- In the popup window, touch **[T-TXT]** to open the teletext page for the currently selected TV station ⇒ fig. 42.
- Touch the function key **[T]** to close the teletext.

Changing teletext pages

- Open the teletext page of a TV station as described. The number of the current page is shown on the top left.
- Now select **[▲]** or **[▼]** to go to the next or previous available page number. Teletext pages are identified clearly by a unique page number. Unused page numbers are skipped when you browse with the arrow keys.

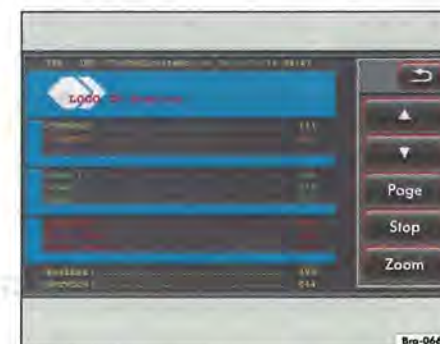


Fig. 42 Typical teletext page.

Opening a specific teletext page

- The teletext home page displays a list of the available pages. To go to a specific teletext page you must enter the corresponding number.
- Select the **[Page]** function key to open a screen where you can enter the page number.
- Enter the number of the teletext page you want and confirm your input as described ⇒ page 12, "Input mask for entering numbers". The page is opened. The running numbers next to your number entered at the top left of the screen indicate the progress of the page search.

When the number of a teletext page is entered, all available teletext pages for the selected TV station are browsed in ascending numerical order. When the highest number has been reached, the search starts again with the lowest number. The search for a particular teletext page may take a few seconds depending on the page number you want and the number of the current page.

Other function keys for displaying a teletext page

If you touch the teletext page on the screen, the TV image will appear in the background behind the teletext page. Touch the screen again to remove the TV image behind the teletext page.

Stop – freezes the teletext page view at the current sub-page. This is because some teletext pages consist of a number of sub-pages which are normally displayed continuously one after the other.

Zoom – magnifies the view of the current teletext page. Touch once to view the top half and twice to view the bottom half of the current teletext page filling the screen. Touch again to return to the normal view of the teletext page.

Note

- If there is no teletext available for the selected TV station, the screen remains black and the icon " " shows that teletext is not available.
- If reception is poor, some additional services such as teletext and EPG (electronic programme guide) may be temporarily unavailable.

Applies to vehicles: with TV receiver

Electronic Programme Guide (EPG)

If the selected TV station offers an electronic programme guide, this will be indicated by "EPG" at the top right of the TV menu. You can also select a different TV station directly from the EPG.

Start TV mode ⇒ page 43, "Starting TV Mode". Touch the screen to open the TV menu ⇒ page 43.

Opening the electronic programme guide

- In TV mode, touch the screen once to open the TV menu.
- Touch the **Extras** function key to open the popup window ⇒ page 49, fig. 41.
- In the popup window, touch **EPG** to view the electronic programme guide. For each digital TV station that you can currently receive, the list displays the programme that is currently running and the programme that immediately follows it. The programme on the selected TV station is highlighted.
- Touch **▲** or **▼** to highlight the current programme of a different station in the list.

– If you touch the **Info** key, you can view more information about the highlighted programme and the next programme provided the station makes this information available.

– Touch the **Select** function key to close the EPG and display the highlighted station in TV mode.

– If you select the function key **□**, the EPG will close and the station that was previously selected is displayed.

The electronic programme guide is only available for digital TV stations received on DVB-T and only when they support EPG.

The programmes listed **cannot** be selected directly by touching them. They can only be highlighted, displayed and opened using the right hand function keys.

Note

- If no EPG is currently available, the screens remains black and the icon " " is displayed.
- If reception is poor, some additional services such as teletext and EPG (electronic programme guide) may be temporarily unavailable.

- TV stations are responsible for the scope and content of the information provided in the EPG.

- The EPG cannot display any information about analogue TV stations.

Applies to vehicles: with TV receiver

TV settings

The "Video settings" menu is also used to make the settings for the TV mode. You can change the TV standard and TV format (4:3 or 16:9), select an audio channel for audio output (two-channel sound) and set up the analogue/DVB-T selection. You can also specify the list from which TV stations will be accessed via the arrow keys.



Fig. 43 Video settings with selection of TV settings.

Call up the Video settings menu by pressing the **SETUP** function selection button and the **Video** function key.

Specifying station selection using arrow keys

– In the Video settings menu, move the slide control down and touch the ⇒ fig. 43 **TV search mode** function key.

– Touch **Station list** or **Memory list** to specify the list from which selections will be made with the arrow keys in TV mode. If you select **Memory list**, only TV stations that are stored in the memory list will be accessed with the arrow keys ⇒ page 45, "Browsing TV stations".

Changing the TV standard

- In the Video settings menu, move the slide control down and touch the **TV norm** function key to open the popup window in which you can select a TV standard.
- Touch the required TV standard to select it. Ask your specialist retailer about the TV standard used in the country you are visiting.

Changing the aspect ratio of the screen display

- In the Video settings menu, move the slide control down to display the **TV format** function key. The aspect ratio that is currently set is shown beside the **TV format** key.
- Touch the **TV format** function key, and in the popup window which opens, select **4:3** or **16:9** to set the required aspect ratio for displaying the TV image ⇒ page 45, fig. 38.

Selecting audio channel for two-channel sound

- If a programme is broadcast in two languages with two-channel sound (display ⇒ page 45, fig. 38:), you can manually select the audio channel with the language you want.
- In the Video settings menu, move the slide control down and touch the **TV audio channel** function key to open the popup window in which you can select an audio channel.

– Simply touch to select **[CH A]** or **[CH B]**. Your selected audio channel appears at the top left of the *TV menu* ⇒ page 45, fig. 38.

Making settings for “station tracking”

– In the *Video settings* menu, move the slide control down to display the function key **[Automatic DVB-T/Analogue switch]**. A tick in the checkbox ☒ shows that station tracking will also search for the analogue or digital pendant of the selected TV station ⇒ page 46, “Selected TV station after a change of location”.

– Briefly touch the function key to check or clear the checkbox.

Deleting the TV memory list

– In the *Video settings* menu, move the slide control down and touch the **[Delete TV memory list]** function key.

– Confirm the prompt if you no longer need the TV stations stored in the memory list, e.g. because they are not available at your new location ⇒ page 47, “Memory list”.

Setting the audio/video standard

– In the *Video settings* menu, move the slide control fully down to see the function keys **[AV 1 norm]** and **[AV 2 norm]**. Here you can set up the necessary playback standard²³⁾ for an optionally connected external audio/video source for both of the available video inputs.

– Touch the function key **[AV 1 norm]** or **[AV 2 norm]**, then in the popup window, touch to select the required standard.

For more settings for the video DVD mode and for operating an external audio/video source in the *Video settings* menu, refer to chapter ⇒ page 126.

Note

If a TV programme that is transmitted in 4:3 format is displayed using the 16:9 screen format setting, then the top and bottom of the TV image will be “cut off”. ◀

Important information on operating the CD player

Safety precautions for devices fitted with lasers

Laser devices are classified into safety classes 1 - 4 in accordance with DIN IEC 76 (CO) 6/ VDE 0837.

Volkswagen CD players conform to safety class 1.

The lasers used in class 1 devices are low energy lasers, or are shielded in such a way that they present no danger when used correctly.

WARNING

- The CD player is a class 1 laser product. When the CD player is opened, there is a risk of injury caused by the invisible laser beams escaping from the unit.
- The CD player contains no parts which you can service or repair by yourself. You should therefore contact an authorised dealer if there is a mechanical fault or if a repair is required. ◀

Tips for the CD mode

To ensure perfect, high-quality sound, use only clean, undamaged CDs.

Please note that a dirty or scratched navigation DVD can seriously impair the speed and functions of the navigation system.

Compact discs should always be stored in the CD rack from the Genuine Volkswagen accessories range or in their original case when not in use.

Please do not stick any labels onto the CDs.

Never expose CDs to direct sunlight!

WARNING

The volume settings should be selected so that warning signals from outside the vehicle, e.g. police or fire brigade sirens, can be heard at all times.

Note

- You might not be able to play CDs with copy protection or CD-Rs and CD-RWs which you have burned yourself.
- Not every CD player can play MP3 CDs. Please refer to the notes in the corresponding chapter.
- Please observe the copyright laws applicable in your country. ◀

²³⁾ Optional equipment! Please refer to the manufacturer's operating manual.

Handling data media (CDs and DVDs)

To ensure perfect, high-quality sound, only clean, undamaged data media should be used.

Cleaning data media

Hold the data medium by its edge. Avoid leaving fingerprints on data media.

Clean data media using a soft, lint-free cloth. Wipe the data medium in straight lines moving from the centre out towards the edge. Stubborn dirt can be removed with a commercial CD/DVD cleaner or isopropyl alcohol.

Caution

- Never use fluids such as petrol, paint thinner or vinyl record cleaner, as these can damage the surface of the data medium!
- Use standard 12 cm CDs/DVDs only. 8 cm single CDs and irregular CDs (known as "shape CDs") must not be inserted as they could damage the CD/DVD drive.
- DVD plus, dual discs and flip discs are thicker than standard CDs and must not be inserted into the unit.

- Push the CD/DVD into the CD slot until it is pulled in automatically.
- The data medium should be held straight and at right angles to the front of the unit when being inserted and removed from the drive, taking care not to jam it. Surface scratches may render the data medium unserviceable.
- Only write on data media using suitable pens/markers. Unsuitable writing products will damage the material.
- Do not affix stickers or similar items to the data medium, as stickers can work loose and damage the drive.
- Do not place data media near heat sources or in direct sunlight.
- DVDs should always be stored in the rack from the Genuine Volkswagen accessories range or in the original case when not in use.
- Please be careful when removing data media that they do not fall and scratch their surface. ◀

TONE function selection button

Changing the sound, sound focus, and volume

You can adjust the sound character and the volume of different audio sources to suit your individual needs.

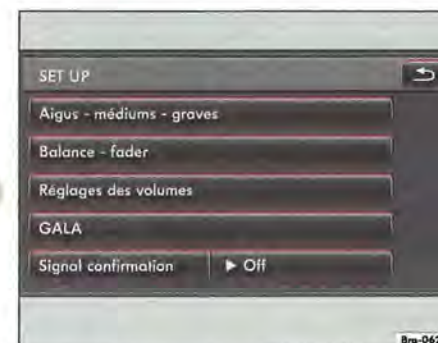


Fig. 44 Main menu: Sound settings.

In the *Sound settings* ⇒ fig. 44 main menu, functions can be switched off or on or are infinitely adjustable ⇒ page 5, "General operation". An overview of setting options and the menu structure of the *Sound settings* main menu can be found at the end of this chapter.

Calling up the Sound settings main menu

- Press the **[TONE]** function selection button to open the menu to change the sound and volume settings ⇒ fig. 44.

Changing the sound character or sound focus

- Touch ⇒ fig. 44 **[Treble - Mid - Bass]** to open the settings menu for changing the "sound character".
- Touch ⇒ fig. 44 **[Balance - Fader]** to open the settings menu for changing the sound balance from left to right (balance) and from front to back (fader).



Fig. 45 Menu: Volume settings.

- Move the slider or press the **[+]** or **[-]** to change a setting.

Changing volume settings

- Touch ⇒ fig. 44 **[Volume]**. The *Volume settings* menu is opened ⇒ fig. 45.
- Touch the function key **[Switch-on volume]**, **[Traffic announcements]** or **[Telephone]**, to open the corresponding settings menu.
- Move the slider or press **[+]** or **[-]** to change the displayed volume.
- Touch the **[Navigation]** function key to open the *Navigation volume* menu. In the *Navigation volume* menu, you can adjust the volume of the Nav. announcements with **[Announcement volume]**. You can also change the options for **[Nav. announcements]** or specify how far the volume of other audio sources should be lowered during a Nav. announcement using **[Audio settings]** ⇒ page 62.

GALA – speed dependant volume control

- Touch ⇒ page 55, fig. 44 **GALA**. The *GALA* settings menu is opened.
- Change the degree of volume increase in stages from 1 to 6 by moving the slider or pressing or ⇒ page 56, “Operating *GALA*.”
- Move the slider all the way to the left to switch off *GALA*.

Accepting settings

- Touch the function key on the screen to switch to the previous menu. Press a function selection button (e.g. **RADIO**) to go to that menu. The changed settings are accepted in both cases.

Confirmation tone for screen operation

You can switch a confirmation tone for operating the touch screen on or off. To do this, move the slider in the *Sound settings* menu all the way to the bottom and touch **Confirmation tone**. In the pop-up window, touch or .

Nav. announcements

– Navigation announcements are played during audio mode at the preset volume ⇒ page 95.

Dynamic – navigation announcements are only issued when the calculated route has been left, e.g. as a response to traffic congestion warnings. This setting is recommended when navigation announcements for a route travelled each day are no longer needed and the navigation system is only used for dynamic navigation ⇒ page 98, “Dynamic route guidance with TMC (Traffic Message Channel)”. If a navigation announcement is issued again due to a change in route, Nav. announcements are always switched on again (display: **Nav. announcements**).

Off – no spoken navigation recommendations are issued.

Operating *GALA*:

The noise level in the vehicle increases with vehicle speed. *GALA* automatically adjusts the volume to the speed of the vehicle.

If a low *GALA* value is set, the volume rises slightly when the speed of the vehicle increases.

If a high *GALA* value is set, the volume rises significantly when the speed of the vehicle increases.

In this way, *GALA* can be adjusted at any time (e.g. windows open or closed or roof carrier attached) to suit current situation in the vehicle.

The basic volume is still changed via the volume control ⇒ page 2, fig. 1 .

Function overview table for the **TONE** function selection button

Main menu: Sound settings			
Function keys	1. Sub-menu	2. Sub-menu	3. Sub-menu
Treble - Mid - Bass	Settings menu for <i>Sound settings</i> : – <i>Treble</i> – <i>Mid</i> – <i>Bass</i>		
Balance - Fader	Settings menu for changing to volume from: – right to left <i>Balance</i>) – front to rear <i>Fader</i>		
Volume	Switch-on volume	Settings menu for the maximum <i>switch-on volume</i>	
	Traffic announcements	Settings menu for the volume of <i>traffic announcements</i>	
	Navigation	Announcement volume	Settings menu for the volume of Nav. announcements – <i>Volume</i> – <i>Minimum volume</i>
		Nav. announcements	Pop-up window: Nav. announcements – <i>Off</i> – <i>Dynamic</i> – <i>On</i>
		Audio volume reduction	Pop-up window: lowering the audio volume during a Nav. announcement – <i>Low</i> – <i>Medium</i> – <i>High</i>
	Telephone	Settings menu for lowering the volume of a media source during a telephone call	
GALA	Settings menu for increase level of the <i>Speed dependant volume control</i> ⇒ page 56		
Confirmation tone	Pop-up window: confirmation tone when pressing a button – <i>On</i> – <i>Off</i>		
Touch the  to return to the previous menu.			

NAV (navigation system) function selection button

Overview

How does the navigation system work and how is it operated?

An optimal route is defined using sensors, satellites and traffic reports and the driver is then guided to his or her destination.

The current vehicle position is determined using a satellite system (GPS - Global Positioning System). Sensors in the vehicle measure distances that have been driven. The values are compared to the detailed map information on a navigation DVD and are corrected as necessary with the support of TMC traffic reports (TMC = Traffic Message Channel) ⇒ page 98. The data is then used to calculate the optimal route to the destination.

Navigation announcements, map displays on the screen of the navigation device, and direction arrows shown on the screen and in the combi-instrument guide you safely and comfortably to your destination. You can drive to an address in an unfamiliar town, find the nearest petrol station or be guided to a hotel, for example.

This chapter contains answers to the following questions:

- What rules do I have to adhere to when using the navigation system? ⇒ page 59, "Safety information for using the navigation system"
- How do I use the navigation DVD? ⇒ page 60, "Navigation data and the navigation DVD"

- Can I listen to music when using the navigation system? ⇒ page 62, "General information"
- What happens if I leave the recommended route? ⇒ page 62, "General information"
- Can a navigation announcement be repeated? ⇒ page 96, "Issuing navigation recommendations"
- How does the navigation system respond when driving in an underground car park or a tunnel? ⇒ page 62, "General information"
- How do I enter destinations? ⇒ page 67, "Destination entry: selecting a destination"
- How can I enter petrol stations, restaurants or hotels as destinations? ⇒ page 69, "Selecting points of interest as a travel destination"
- Can I store destinations in a memory? ⇒ page 78, "Destination memory"
- What parameters can I set for route calculation? ⇒ page 66, "Specifying parameters for route calculation"
- How am I guided to a destination? ⇒ page 96, "Issuing navigation recommendations"
- Can I stop or interrupt the route guidance function before I reach my destination? ⇒ page 95, "Route guidance" ◀

Safety information for using the navigation system

The navigation system determines the position of the vehicle, the direction, distance and the route to a selected destination. However, it is not able to take traffic rules and regulations into account ⇒ ⚠. The system provides navigation recommendations in the form of spoken navigation announcements. Direction arrows indicating the direction of travel are also displayed on the screen.

The destination is entered when the vehicle is stationary. The route guidance function is designed for cars and is therefore unsuitable for larger commercial vehicles.

The route is recalculated each time you ignore recommendations or leave the recommended route. This process takes only a few seconds. Navigation recommendations can only be made again when the process is complete.

Depending on the country, some radio navigation system functions can no longer be selected when the vehicle is travelling above a certain speed. This is not a malfunction, but simply the legal requirements valid in this country.

Incomplete navigation data

The navigation system cannot receive data from GPS satellites while passing under a heavy canopy of trees, or when your vehicle is in a garage, underpass or tunnel. In these situations, the navigation system relies the vehicle sensors to determine the position of the vehicle.

In areas that are not, or are only partially, digitalized on the navigation DVD, the navigation system will continue to attempt to establish route guidance. Note that under these circumstances, faults may occur in the route guidance when aspects such as one-way streets and street categories (motorway, rural routes, etc.) are not, or are only partially, included in the navigation data.

⚠ WARNING

Please keep your attention on driving at all times. Accidents and injuries can occur if the driver is distracted.

- Do not allow yourself to be distracted from the road by making settings or by using the radio/navigation system.
- The radio/navigation system should only be used when the road, weather and traffic conditions are such that it is safe to do so.
- The volume settings should be selected so that warning signals from outside the vehicle, e.g. police or fire brigade sirens, can be heard at all times.

⚠ WARNING

Please observe the laws of road traffic legislation when following the recommendations made by your radio/navigation system.

- The recommendations made by the system can differ from the actual road situation, e.g. due to road works or outdated navigation data. In these cases, traffic legislations should always be followed and recommendations made by the navigation system ignored.
- Traffic signs and legislations always take priority over the recommendations made by the navigation system.
- Even if information regarding one-way streets, pedestrian zones etc. is stored on the navigation DVD, route guidance is still subject to constant changes. Information regarding traffic lights, stop signs and right of way signs, parking and stopping restrictions, as well as lane constrictions and speed limits, is not included in the radio/navigation system.
- It is essential that you adjust your speed to suit the road, weather and traffic conditions. Do not follow the radio/navigation system recommendations if it advises you, for example, to drive fast in foggy conditions. Risk of accident! ◀

Navigation data and the navigation DVD

It is advisable to store the data on the navigation DVD directly in the navigation memory of the unit. The navigation DVD is then no longer needed for navigation.

If there is currently no navigation data stored in the navigation memory of the unit, the navigation data is saved automatically when the navigation DVD is inserted.

Storing navigation data in the unit

- Insert the navigation DVD into the CD/DVD slot with the printed side facing up until it is automatically pulled in ⇒ . The unit compares the data on the navigation DVD to the data in the navigation memory. If the data in the navigation memory of the unit is identical to the data on the navigation DVD, no message appears.

- Press the  button to remove the navigation DVD ⇒ .

- If there is currently no navigation data stored in the unit, the storing process starts automatically in the background. If you press the  button during this process, a message appears stating that the navigation data is currently being copied onto the hard drive and the process will be cancelled if the navigation DVD is removed.

- Press the  function key to be informed when the storing process has finished.

- When the message appears, press the  button or press the  function key, and remove the navigation DVD. The current route guidance will be cancelled and must be restarted.

Updating navigation data in the unit

- If the data in the navigation memory of the unit is **not** identical to the data on the navigation DVD, a message appears.

- Press  in the pop-up window to confirm that you have seen the message.

- Press the  function key in the pop-up window to overwrite the data in the navigation memory of the unit with the data on the navigation DVD.

- If you press the  button during this process, a message appears stating that the navigation data is currently being copied onto the hard drive and the process will be cancelled if the navigation DVD is removed now.

- Press the  function key to be informed when the storing process has finished.

- When the message appears, press the  button or press the  function key, and remove the navigation DVD. The current route guidance will be cancelled and must be restarted.

Using the navigation DVD data for a short period of time

- If you only leave the map area stored in the navigation memory of the unit for a short period of time, insert the navigation DVD for the area where you will be travelling.

- Press  in the pop-up window to confirm that you have seen the message.

- Press the  function key in the pop-up window and exit the navigation DVD in the unit. The unit now navigates using the data from the navigation DVD.

- When you return to the area covered in the map material stored in the navigation memory, press the  button to remove the navigation DVD.

Storing the navigation data can take up to an hour. While the navigation data is being stored, route guidance is started using the navigation DVD. Note that the route guidance is cancelled if the navigation DVD is removed. Route guidance must then be restarted and receives data from the navigation memory of the unit.

Ensure that when inserting and removing the navigation DVD, it is kept straight and at right angles to the front of the unit. Do not hold the DVD at an angle which could cause scratches, rendering the navigation DVD useless.

Store the navigation DVD carefully so that it is on hand when you have to temporarily replace the data on the navigation DVD in the unit with the data stored on another navigation DVD ⇒ page 61, "Leaving the stored navigation area".

Compatibility of the navigation DVD

There are different generations of units in use in Volkswagen vehicles. The data carriers for the different units are not compatible with each other. You will need the navigation DVD which is valid for your navigation system. Your Volkswagen dealer will be pleased to help you find the right version.

Current navigation data and new navigation DVD

Roads and streets are subject to constant change (e.g. new roads, changes to street names and house numbers). Your navigation DVD is an enormous database which, after some time, will unfortunately no longer be up to date. This could cause problems during route guidance.

For this reason, update the navigation data on your unit regularly with a current navigation DVD. Be sure to obtain a new navigation DVD in time, also available at your Volkswagen dealer.

Leaving the stored navigation area

The map area stored in the navigation memory of the unit is very large and contains multiple countries. However, if you should leave the stored navigation area, you will need another navigation DVD with the appropriate navigation data.

A navigation DVD compatible with your unit can be obtained from your Volkswagen dealer. You can then store the data of this navigation DVD in the unit. When this is done, the "old" navigation data in the unit is overwritten.

If you are only leaving the stored navigation area for a short period of time, you can also navigate directly via the inserted navigation DVD. However, the navigation DVD must then remain in the internal CD/DVD drive for the duration of the route guidance ⇒ page 60, "Using the navigation DVD data for a short period of time".

Can I burn my own navigation DVDs?

Your navigation system will only accept original DVDs, as only these can guarantee correct route calculation.

Copyright laws are in place prohibiting unauthorized reproduction of navigation DVDs.

Using an illegal copy of a navigation DVD will nearly always cause problems in the navigation system.

WARNING

- Please refer to ⇒ page 19, "General information on CD/DVD mode" and ⇒ page 53, "Important information on operating the CD player".

Caution

- Please note that a soiled or scratched navigation DVD can seriously impair the complete copying of all the navigation data needed for navigation into the navigation memory. This can significantly affect the speed and the functions of the navigation ⇒ page 54, "Handling data media (CDs and DVDs)".
- Inserting a second CD/DVD while an inserted CD/DVD is being ejected can destroy the CD/DVD drive in the unit. Note that it takes a few seconds to eject the CD/DVD after pressing the **eject button** . The protective barrier in front of the CD/DVD slot is opened while this is happening. You must wait until the CD/DVD is ejected before trying to insert a new CD/DVD.
- Please note that a soiled or scratched navigation DVD can seriously impair the speed and functions of the navigation system.
- DVDs should always be stored in the DVD rack from the Genuine Volkswagen accessories range or in the original case when not in use.

Note

- The extent to which small villages, streets and house numbers are included on the naviga- ➤

tion DVD depends on the version of the navigation DVD.

- In certain cases, you may need a new navigation DVD when travelling in another country. A list of the countries included on the DVD can be found on the rear side of the DVD case.

General information

The full scope of the unit's audio sources are available while you are being navigated to a destination²⁴⁾. Navigation announcements are played at the preset volume in the current audio mode. The volume of the current audio source will then be lowered so that you do not "miss" the navigation announcement ⇒ page 55, "Changing volume settings".

You can use the **[MAP]** and **[NAV]** function selection buttons to receive information on the current navigation status.

When entering an address (town, street), only those characters which make up a logical entry are made available for selection. A list of possible names are shown. Do not forget to enter the blank space in names made up of more than one word, such as "High Wycombe".

The route will be recalculated if you leave or disregard the route that was originally calculated. This process takes only a few seconds.

Input windows for navigation

Overview

Input windows are used to select an address or enter a name or numbers.

There are two kinds of input masks. The input masks used to search for and call up information in the unit (e.g. "select" an address) and input masks where "free text" can be entered.

Input masks for "searching for information" (e.g. selecting an address)

When entering destinations, it is only possible to enter names which are already stored in the navigation memory.

- The content of the navigation DVD is being updated constantly. You can obtain information on new navigation DVDs from your Volkswagen dealer. ◀

The last announcement made can be repeated during route guidance by pressing the **[ti]** button. You can change the volume during a navigation announcement by turning the volume control ①.

If "Off Road" is displayed on the screen, you are on a street that is not included in the navigation data used, such as a car park, a private road or a country lane.

The GPS satellite signals will not be able to reach your aerial when you are in a tunnel or underground garage, forcing the unit to rely on the wheel sensors for orientation. If you attempt to carry out a route calculation in this situation you may hear the announcement: "You are located on a non-digitalised street". Drive on until the display "Off Road" disappears. ◀

For this reason, only those letters, numbers and special characters which make up a logical entry are available for selection. A destination is therefore not entered freely, but selected from a range of destinations stored in the unit.

Every character you enter narrows the choice of stored destinations further until there are only a few destinations with this combination of characters available for selection from the navigation memory.

acters available for selection from the navigation memory. When fewer than one hundred destinations are available for selection, the number of destinations currently available is displayed to the right next to the input line. If fewer than six destinations are available for selection, the input mask is closed automatically and a list of possible destinations is displayed. Touch the desired destination to select it.

While the destination is being entered, the characters are continuously compared with the navigation data in the navigation memory and suggestions are displayed in the input line. These

suggestions can be accepted by touching the **[OK]** function key.

If one of your desired inputs is not available, either the address does not exist, or a previously selected restriction will not allow you to make the entry. For example, entering a particular post code will only allow you to choose streets that are actually located in that post code range.

Input windows for "free text input"

Free text entry allows any letter, number, and special character to be entered in any combination ⇒ page 10. ◀

Input masks for selecting an address

Only those letters and numbers which make up a logical entry are available for selection.



Fig. 46 Address input: selecting a town.

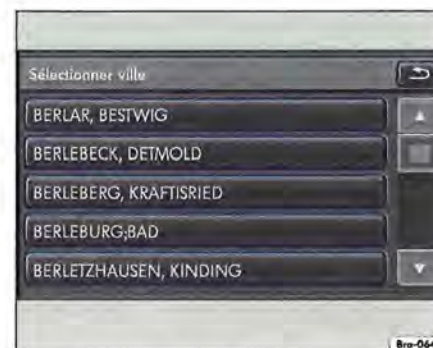


Fig. 47 Selecting from a list.

When entering destinations, it is only possible to enter names which are already stored in the navigation memory. When entering an address, for example, the town selection is always restricted to a previously-selected country. Additional selection options are restricted by each new character in the input line ⇒ page 62.

Selecting a destination

- In the input mask, touch a character displayed in the keyboard block to add it to the input line.

- Touch the **[v+]** function key to open the input mask for numbers and special characters. Press **[A-Z]** to change to the letter input mask again.

- Each entry will suggest a new destination from the navigation memory in the input line.

- Touch **[OK]** to accept the destination displayed in the input line. Touch **[↵]** to close the input mask without accepting the entries.

²⁴⁾ Exception: ⇒ page 60, "Using the navigation DVD data for a short period of time"

- Delete the characters in the input line, starting at the position of the character insertion mark and moving from right to left, by touching the function key.

Selecting a destination from the list

- If you touch the function key after opening the input mask, a list is opened with all of the destinations meeting the parameters (e.g. for **Country** and **Town**) that can be selected from the navigation memory $\Rightarrow$ fig. 47.

- Move the scroll bar on the right side of the screen to display all of the entries in the list.

- Touch the desired entry in the list to accept it for the address entry.

Narrowing the destination search and selecting from the list

- While making entries in the input line, you can touch the function key behind the input line at any time to open a list of destinations which can be selected. Only those destinations which can be selected from the navigation memory are displayed that meet the parameters and the sequence of characters in the input line $\Rightarrow$ page 63, fig. 47.

- The number of the currently available destinations is displayed in the function key when fewer than one hundred destinations can be selected $\Rightarrow$ page 63, fig. 46.

- If fewer than six destinations can be selected, the input mask is closed automatically and the list of possible destinations is displayed.

Selecting special characters based on letters

A few letters are also marked with a small triangle "▼". This indicates that special characters based on this letter can be selected.

Keep the function key pressed with your finger until a pop-up window is shown with this special character. Accept the desired character by touching the input line – the pop-up window will be closed. If no entries are made, the pop-up window is closed automatically after a few seconds.

A few special characters can also be "written out". Thus, instead of the German special characters "Ä", "Ü", and "Ö", the sequence of characters "AE", "UE", and "OE" are recognised by the navigation system. Other special characters can be ignored, such as instead of "É", "Ê", or "Ë", a normal "E" is recognised by the navigation system. ◀

The Navigation main menu

The Navigation main menu is used to select a new destination, to store a displayed destination, to set a "Flagdest.", to change to the tour or waypoint navigation mode, to start route guidance to the displayed destination, and route options are displayed and specified.



Fig. 48 The Navigation main menu with address.

- Touch the function selection button to switch over to navigation. The last opened menu in navigation is displayed.
- Touch the function selection button again if the *Navigation* $\Rightarrow$ fig. 48 main menu is not displayed. In navigation, touching the function selection button always selects the *Navigation* main menu.

The *Navigation* main menu is displayed either in "normal" Travel destination mode $\Rightarrow$ fig. 48 or in Tour mode $\Rightarrow$ page 83, fig. 69. If Tour mode is displayed, change to "normal" Travel destination mode $\Rightarrow$ page 85, "Leaving Tour mode".

In the upper third of the screen, the address last used as route guidance is displayed. If no address is displayed, route guidance was not yet performed with the unit or the "destination memory" was manually deleted $\Rightarrow$ page 78, "Destination memory".

Next to the function key the currently set route options are displayed $\Rightarrow$ page 66, "Specifying parameters for route calculation".



Fig. 49 Selecting route options.

Setting the and

– opens a window with information about your current location. In this menu, you can store the displayed location in the destination memory using $\Rightarrow$ page 78, "Destination memory".

– stores the current position as a "Flagdest." in the destination memory. Only one destination can be stored using the name "Flagdest." in the destination memory. If the flagged destination is not renamed, it will be overwritten $\Rightarrow$ page 81 when the screen is touched again.

Additional function keys in the Navigation main menu

– opens a selection menu to select the type of destination entry $\Rightarrow$ page 67.

– opens a pop-up window:

- – to select a travel destination that is already saved $\Rightarrow$ page 76.
- – to save the travel destination displayed in the *Navigation* main menu $\Rightarrow$ page 81.
- – switches to the destination memory $\Rightarrow$ page 78.

specify a point along the route or the destination area as the search area ⇒ page 69.

[Map/GPS] – select a point from the map as travel destination ⇒ page 74.

New destination: selecting a travel destination from the destination memory

[Home address] – selects a previously entered and saved home address as destination – or defines the home address ⇒ page 82.

[Recent destinations] – opens the list of the destinations recently travelled to and starts route guidance to one of the displayed travel destinations

by touching it ⇒ page 76 – or saves the displayed *Recent destinations* ⇒ page 80.

[Favourites] – opens the list of saved travel destinations which were previously defined as “favourite destination”, and starts route guidance to one of the displayed travel destinations by touching it ⇒ page 76 – or edits “Favourites” ⇒ page 81.

[Destination memory] – opens the list of saved travel destination and starts route guidance to one of the displayed travel destinations by touching it ⇒ page 76 – or edits the “Destination memory” ⇒ page 80. ◀

Selecting a target address

Entering an address using an input mask for selecting a target address. The travel destination is narrowed down further with each entry.

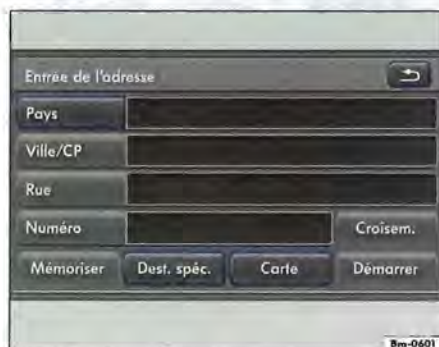


Fig. 52 Selecting addresses.

In the *New destination* menu, touch the ⇒ page 67, fig. 51 **[Address]** function key.

Selecting a target address

– Select the target address in the *Address entry* menu.

– Touch one of the left function keys **[Country]**, **[Twn./P.cd.]**, **[Street]** or **[Number]** to open the appropriate input mask ⇒ page 62, “Input windows for navigation”. A target address must always be selected in the displayed sequence, first the country, then the town, etc.

– If the parameters are sufficient for route guidance, the **[Start]** function key is active.

– If you touch the **[Start]** function key, route guidance is started ⇒ page 95.

Changing the target address

– If a travel destination was previously defined, this travel destination is displayed in the *Address entry* menu. You only have to change the addresses that differ from the desired target address. If the correct country is displayed, touch **[Twn./P.cd.]** to begin by selecting a town.

If a target address is already displayed, the changes to the upper level destination parameters and the lower level destination parameters that would narrow down the travel destination are deleted. If the destination parameters after **[Twn./P.cd.]** are changed, the old parameters after **[Street]**, **[Number]** and **[Intersect.]** are deleted.

Narrowing down the address entry

Note that each destination parameter that narrows down the travel destination restricts subsequent selection options. When entering an address, only narrow down the target area to the extent you are comfortable with your entries. For example, if you are not sure about a post code, then just enter the town name. A street you are

looking for that is not in the post code area cannot be found when selecting a street later.

Function key **[POI]**

The ⇒ page 68, fig. 52 **[POI]** function key selects the input mask for points of interest ⇒ page 69.

You can narrow down the target area for points of interest searches in the *Address entry* ⇒ page 68, fig. 52 menu, for example, by entering the **[Country]** and **[Town]**.

The **[Map]** function key in the *Address entry* menu

The **[Map]** function key is used to select map display where you can further specify the target area by moving a cross hair ⇒ page 74, “Selecting a travel destination from the map”.

Selecting points of interest as a travel destination

In the search mask “POI search” options are specified to search for a point of interest.

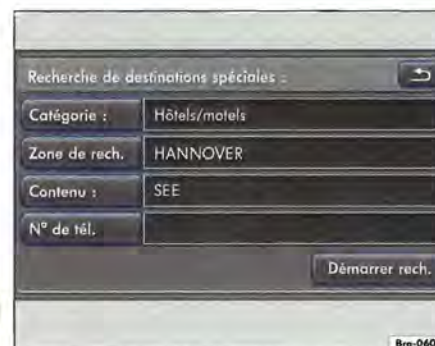


Fig. 53 Search mask for a Point of interest search.

In the *New destination* menu, touch the ⇒ page 67, fig. 51 **[POI]** function key. In the *POI search* menu, options are specified to search for a point of interest.

In the *Address entry* ⇒ page 68, fig. 52 menu, you can specify before switching to **[Map]** which area should be displayed, for example by selecting **[Country]** and **[Town]**. Otherwise the last travel destination travelled to on the map display is displayed. If a travel destination has not yet been used, the current location is displayed in an overview map.

Additional function keys

The function keys **[Save]** and **[Start]** are active after a town is selected.

[Save] – opens a menu to save the displayed target address ⇒ page 81.

[Start] – starts route guidance to the displayed target address ⇒ page 95. ◀



Fig. 54 Point of interest information window.

[Category] Selecting a point of interest category

– If you are looking for a specific type of destination, for example a hotel, touch **[Category]** and select a main category in the following menu by touching it, e.g. **[CAR AND TRAVEL]**. ▶

– After selecting a main category, the list of available point of interest categories is opened, e.g. **Hotels/Motels**. There could be other sub-categories available, e.g. **TRAVEL**. To switch from the sub-category view to a main category, touch **☐**.

– As an alternative touch the **ALL CATEGORIES (ALPHABETICAL)** function key to display all available point of interest categories in a list in alphabetical order. All displayed symbols can also be displayed in map display ⇒ page 122, "Selecting the map details to be displayed".

– Select the desired point of interest category by touching it. This point of interest category is now displayed in the *POI search* menu ⇒ page 69, fig. 53. An overview of all available point of interest categories can be found at the end of this chapter ⇒ page 72.

– Touch **☐** to return from the category overview to the *POI search* menu without selecting a point of interest category.

Specifying the search area

– Touch **Search area** to specify the area where a point of interest should be searched ⇒ page 71, "Search area options".

Specifying additional search options

– If you are looking for a specific destination, for a hotel for example, where you know the name or telephone number, touch the function key **Name with** or **Tel.**.

– Enter the name or parts of the name ⇒ page 11, "Input mask for free text input". If you are looking for a hotel at a specific location where you know "Smith" is in the name, you only need to enter "Smith" in the input mask. Then select a search area and start the search ⇒ page 70, "Starting the search". The hotel you are looking for can be found in the list of search results ⇒ page 70, "Selecting a point of interest from the search results".

– A telephone number can also be entered in the manner described ⇒ page 12, "Input mask for entering numbers". When looking for a telephone number, first select a category where you should search and always enter the telephone number without a city or country code.

Starting the search

– When you are finished entering the information in the search mask, touch the ⇒ page 69, fig. 53 **Search** function key. A pop-up window is opened and the point of interest is searched for according to the options you selected in a range of a maximum of 200 kilometres.

– The range where the search is taking place is expanded step by step and the number of points of interest found is displayed in the pop-up window.

– Touch the **Results** function key to cancel the search at the distance displayed for the search area and display the results.

– If you touch the **Cancel** function key, the search is ended without displaying the results.

Selecting a point of interest from the search results

– If a point of interest was found that meets the pre-selected options, the *Point of interest information window* is opened ⇒ page 71.

– If multiple points of interest were found, this are displayed in a list. The points of interest are shown at the top of the list that are closest to the entered search area (distance and direction parameters refer to as the crow flies, and not road distances). If you touch a point of interest in the list, the *Point of interest information window* is opened ⇒ page 71.

Point of interest information window

– Additional information is obtained here, such as the exact address and telephone number of the selected point of interest ⇒ page 69, fig. 54.

– In the "Point of interest information window" touch **OK** to start route guidance to the displayed point of interest ⇒ page 95.

– Touch the **☐** function key if you only want to save the displayed point of interest ⇒ page 81.

– Touch the **◀** or **▶** function key to display other points of interest from the list if multiple points of interest have been found.

– Touch the **📍** function key to display the current vehicle position **📍** and the selected point of interest on the map display.

Search area options

Touching the **Search area** calls up the *Select search area* menu.

In then *Select search area* menu, specify where you should search for a point of interest. When

calling up the menu, the search area is set to the current location.

Near destination – if a travel destination is selected, you can select the radius around this travel destination as the search area for the point of interest.

Location – limits the point of interest search to the radius of the current location (default setting).

Near town – enter the town using an input mask where you want to search for the point of interest ⇒ page 63.

Select point on map – move the crosshair to select a point on the map where you would like to search for a point of interest. Proceed as is described in the Chapter "Selecting a travel destination from the map" ⇒ page 74.

Along the route – during the current route guidance, the point of interest search is limited to the surroundings of the calculated route.

Additional options for a Point of interest search ⇒ page 70, "Specifying additional search options"

Name with – look for a specific point of interest by entering a name.

Tel. – look for a specific point of interest by entering a telephone number. Only enter the telephone number without the city or country code. ▶



Available point of interest categories

Category overview		
Main categories	Sub-categories and available point of interest categories	Available point of interest categories
All categories	Search in all categories	
CAR AND TRAVEL	OTHER MEANS OF TRANSPORTATION	- Rental cars - - Train stations - - Bus stations - - Ferries - - Airports -
	TRAVEL	- Motorway exits/entrances - - Motorway intersections - - Border crossings - - Toll areas - - Service area - - Tourist information -
		- Natural gas petrol station - - Hotels/Motels - - LPG petrol stations - - Car parks - - Petrol stations - - Volkswagen Service -
DINING AND SHOPPING		- Bars and Lounges - - Shopping centres - - Cash dispensers - - Restaurants - - Wine and Spirits -
Touching a point of interest category will accept this in the search mask. Touching the function key will return you to the search mask without accepting a point of interest category. Touching the function key will switch from a sub-category to a main category.		



Category overview		
Main categories	Sub-categories and available point of interest categories	Available point of interest categories
POINTS OF INTEREST AND FREE TIME	SPORTS	- Boating - - Golf - - Skiing - - Sport centres -
	- Casinos - - Art exhibits - - Monuments - - Movie theatres - - Museums - - Parks - - City centres - - Tourist points of interest - - Amusement parks -	
COMPANIES AND PUBLIC FACILITIES	- Education institutions - - Companies - - Cemetery - - Town centres - - Church - - Convention centres - - Post offices - - Government, Administration -	
EMERGENCIES	- Hospitals - - Police -	
ALL CATEGORIES (ALPHABETICAL ORDER)	A list of all point of interest categories is opened in alphabetical order.	
Touching a point of interest category will accept this in the search mask.		
Touching the function key will return you to the search mask without accepting a point of interest category.		
Touching the function key will switch from a sub-category to a main category.		

Map/GPS Selecting a travel destination from the map

In map display, select a travel destination by moving the crosshair.



Fig. 55 Travel destination on map.

- In the *New destination* menu, touch the $\Rightarrow$ page 67, fig. 51 **[Map/GPS]** function key. The last travel destination used on a route guidance is displayed in the map display. If a travel destination has not yet been used, the current location is displayed in an overview map.
- To zoom in or out of the map, i.e. to change the scale of the map, turn the setting knob $\Rightarrow$ page 2, fig. 1 **[A]**. Alternatively, press the **[A]** or **[B]** function key.
- Keep your finger pressed on the map display and move your finger without lifting it. The crosshair follows your movements. The next section of the map will be shown after a few seconds when the crosshair is moved to the side of the screen. The geo-position (position display using coordinates) or the street name for the current position of the crosshair is displayed above on the screen $\Rightarrow$ fig. 55.

- If the desired travel destination or target area is displayed, touch the **[OK]** function key. The route guidance function will start automatically $\Rightarrow$ page 95.
- Touch the **[SAVE]** function key if you only want to save the displayed destination $\Rightarrow$ page 81, "Edit/save entry".

You can specify which symbols (e.g. petrol stations, hotels, etc.) for additional information you would like to display in the map display in the Settings menu for the map $\Rightarrow$ page 122, "Map settings".

Specifying the map destination more precisely
You can further narrow down a travel destination selected from the map display later in the *Address entry* menu. To do this, press on the **[NAV]** function selection button after starting route guidance to change from the map display to the *Navigation* main menu. There you can touch the **[Stop]** function key to stop route guidance. If you change to the *Address entry* menu now, the travel destination selected on the map is displayed in the form of an address and can be specified more precisely there $\Rightarrow$ page 68.

You can also specify the area you would like to display for destination selection beforehand in the *Address entry* menu $\Rightarrow$ page 69, "The function key in the Address entry menu".

Additional function keys in the map display
[A] – switches the map display briefly to the overview display (larger scale). After a few seconds, it returns automatically to the last selected zoom display (smaller scale).

[GPS] – opens a menu to enter a travel destination using its coordinates $\Rightarrow$ page 75.

[SAVE] – saves the travel destination selected on the map in the destination memory $\Rightarrow$ page 79. $\blacktriangleleft$

Map/GPS Entering a travel destination using coordinates

A destination can be entered using the exact coordinates for longitude and latitude.



Fig. 56 Enter the travel destination using coordinates.

- In the *New destination* menu, touch the $\Rightarrow$ page 67, fig. 51 **[Map/GPS]** function key. The unit changes to map display where a travel destination can be selected from the map $\Rightarrow$ page 74.
- In map display touch the **[GPS]** function key. The coordinates of the last travel destination used for route guidance is displayed $\Rightarrow$ fig. 56. If a travel destination has not yet been used, the coordinates of the current location is displayed.
- Touch the **[latitude]** function key or **[longitude]** to open the input mask.
- Touch **[A]** and **[B]** to move the character insertion mark within the entry fields or switch to the next entry field $\Rightarrow$ fig. 57.
- Touch a character displayed in the keyboard block in the input mask to insert it after the character insertion mark. Any characters present there will be overwritten.



Fig. 57 Input mask for coordinate entry.

- Touch **[OK]** if the desired latitude or longitude is displayed in the entry fields.
- Touching **[X]** deletes characters from right to left starting from the position of the character insertion mark. Touching **[A]** will close the input mask without accepting the entries.

If the coordinates entered are outside the saved navigation area, a pop-up window is opened with the following message: "These GPS coordinates cannot be processed by the unit. Check your entries." Touch **[OK]** to close the pop-up window and correct your entries.

Note

The coordinates for the current vehicle position can be displayed in the additional window of the map display $\Rightarrow$ page 105, "Additional window in map display". $\blacktriangleleft$

Selecting the saved destination

You can start route guidance to a saved **Home address**, to one of the recent travel destinations **Recent destinations**, to a travel destination saved as a favourite destination **Favourites** or to another travel destination stored in the **Destination memory**.



Fig. 58 List of recent destinations.

Select the *New destination* menu from the *Navigation* main menu ⇒ page 67. In the *New destination* menu, only the function keys can be selected where destinations are already saved. For example, **Recent destinations** can only be selected when route guidance was already started for a destination.

Starting route guidance to a saved "home address".

- In the *New destination* menu, touch the ⇒ page 67, fig. 51 **Home address** function key. If a home address is saved, the unit changes to the map display and route guidance starts automatically ⇒ page 95.

Route guidance to a saved "Favourite destination", to another destination from the destination memory or from the "Recent destinations" list.

- Starting from the *New destination* menu, touch the appropriate ⇒ page 67, fig. 51 function key.



Fig. 59 Detail view: recent destinations.

- A list of saved destinations is displayed, for example, the *Recent destinations* list ⇒ fig. 58.
- In the left column, touch the display of a destination. The unit changes to the map display and route guidance for this travel destination starts automatically ⇒ page 95.

Displaying a destination in Detail view.

- Open a list with the saved travel destinations as described above.
- Touch the ⇒ fig. 58 **Show details** function key after a destination, and touch **Show details** in the pop-up window to open the appropriate destination in detail view ⇒ fig. 59.

All destinations that are saved **manually** are stored in the destination memory and can be called up using the **Destination memory** function key. Destinations that have been used with route guidance are **automatically** saved in the list of recent destinations and can now be called up using the **Recent destinations** function key. If the list is full, the old destinations are overwritten by

new ones ⇒ page 80, "Saving or deleting recent destinations".

Function buttons in the List view

In the example: list of recent destinations ⇒ page 76, fig. 58.

Search – opens an input mask. Enter individual characters or an entire word, as described above ⇒ page 10. If you confirm your entries with **OK**, only travel destinations which contain the entered characters or the entered word are shown in the list. With **Show all** you can switch back to the overall view of the selected list.

Sorting – opens a pop-up window. Touch to select if the list should be arranged according to **Alphabetical** order or **By date**. If **By date** is selected, the recent destinations that were travelled appear at the top of the list.

Additional options in the List view

If you touch the **Show details** function key, a pop-up window is opened with additional options:

Load – starts route guidance to the selected destination ⇒ page 95.

Show details – shows the destination in the detail view ⇒ page 76.

Show on map – opens an overview map with location and selected travel destination in the map display ⇒ page 77.

Save – saves a selected destination from the *Recent destinations* list in the destination memory ⇒ page 80.

Delete – deletes the selected destination ⇒ page 78.

Function buttons in the Detail view

Next or **Previous** – opens the next destination from the list in the detail view.

Show on map – opens an overview map with location and selected travel destination in the map display ⇒ page 77, "Displaying a destination on the map".

Start – starts route guidance to the displayed travel destination ⇒ page 95.

Displaying a destination on the map

The **Show on map** function key opens an overview map where the current location and the selected destination are displayed.

Show details – opens the destination in the Detail view ⇒ page 77.

The meaning of other function keys in the map display can be found in the chapter "Map display" ⇒ page 102.

Saving or editing destinations:

Home address – save or edit ⇒ page 82.

Recent destinations – automatically saved travel destinations are stored in the destination memory ⇒ page 79.

Favourites – save travel destination and specify as favourite destination ⇒ page 81.

Destination memory – edit all of the travel destinations stored in the destination memory or delete the saved travel destinations ⇒ page 80. ◀

Destination memory

Overview

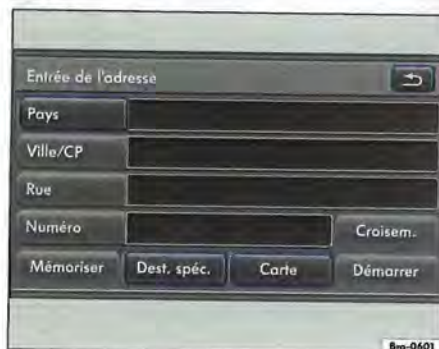


Fig. 60 Selecting addresses.

The destination memory is a memory for **manually** saving travel destinations.

All travel destinations saved in the destination memory can be used for route guidance.

Saved travel destinations can be edited further or deleted.

In the list of recent destinations, the destinations for which route guidance was started are **automatically** saved. The destinations in this list can be used for route guidance.

If you would like to permanently save a "recent destination", it must be stored manually

in the destination memory. Old destinations in the *Recent destinations* list are automatically overwritten by new destinations when the list is full (maximum of ten).

The function keys for saving a travel destination are active, i.e. available, when the travel destination was sufficiently defined. For example, the ⇒ fig. 60 **[Save]** function key can be called up in the menu to select an address when at least one town was entered as a destination.

In some menus, the function key must be called up to save a destination via a pop-up window. An example of this is the *Recent destinations* menu ⇒ page 80.

You can save an address as a home address. Route guidance for this address can be started immediately by touching the **[Home address]** function key without additional entries ⇒ page 82, "Saving or editing the home address".

For faster selection of a saved travel destination and to display it on the map, you can specify a "Favourite status" for frequently used travel destinations ⇒ page 81.

Travel destinations can be stored permanently in the destination memory and edited later ⇒ page 80. ◀

Saving destinations

Displayed travel destinations can be saved permanently in the destination memory from different menus.



Fig. 61 Destination on map.

Depending on the menu selected for destination entry, different function keys are offered for saving a displayed travel destination. For example, ⇒ fig. 61 **[SAVE]** or ⇒ fig. 62 **[📍]**. These function keys are active, i.e. available, when the corresponding travel destination has been sufficiently defined (see ⇒ page 78, fig. 60). The process for calling up the function key to save a destination is described in the corresponding chapters.

– Select a travel destination as described ⇒ page 67, "Destination entry: selecting a destination".



Fig. 62 Point of interest information window.

– If you have sufficiently defined a travel destination, you can open the menu to save this travel destination using the appropriate function key.

– In the menu *Edit/save entry* specify the name and favourite status for the destination to be saved ⇒ page 81.

You can find information on how to call up a destination from the **[Recent destinations]** list, a saved **[Favourite destination]**, or a destination from the **[destination memory]** in the corresponding chapter ⇒ page 76.

Further options available by calling up the **[📍]** function key can be found in the same chapter. ◀

Saving or deleting recent destinations

The last ten destinations for which route guidance was started are saved automatically in the "Recent destinations" list and can be called up for repeated route guidance or stored permanently in the destination memory.



Fig. 63 List of recent destinations.

If you would like to permanently store a recent destination, it must be saved in the destination memory from the *Recent destinations* list. Old destinations are automatically overwritten by new destinations when the *Recent destinations* list is full.

Destination memory Editing or deleting travel destinations

In the destination memory, you can find all of the manually saved destinations, including destinations defined as a favourite destination ⇒ page 81, and a set flagged destination. To set a flagged destination, refer to chapter "Position" and "Setting" ⇒ page 65.

- Open the *Navigation* main menu ⇒ page 65.
- In the *Navigation* main menu, touch the ⇒ page 65, fig. 48 **Save** function key. In the pop-up window which opens, touch **Manage memory**.

- In the *New destination* menu, touch the ⇒ page 67, fig. 51 **Recent destinations** function key.
- Alternatively, in the *Navigation* main menu, touch the ⇒ page 65, fig. 48 **Save** function key. In the pop-up window which opens, touch **Manage memory** followed by **Recent destinations** in the following menu.
- In the *Recent destinations* menu, touch the ⇒ fig. 63 **function key** after a destination to open a pop-up window with editing options.
- If you touch the **Save** function key in the pop-up window, the *Edit/save entry* menu is opened.
- Save the travel destination as described ⇒ page 81, "Edit/save entry".
- If you touch **Delete** in the pop-up window, the destination is deleted after confirming an additional security check. ◀

- If you touch **Delete** in the pop-up window, the destination is deleted after confirming an additional security check.

Editing a flagged destination

Note that only one destination can be stored under the name "Flagdest." in the destination memory.

Edit/save entry

In this menu, you can save destinations or edit destinations already saved.

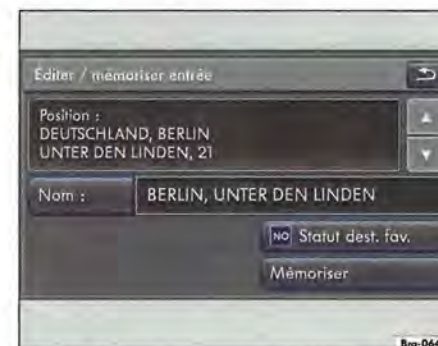


Fig. 64 Menu for saving and editing a destination.

The menu *Edit/save entry* is opened when a destination has been selected to be saved or edited.

Specifying destination parameters for saving

- Touch the ⇒ fig. 64 **▲** or **▼** function key to completely display the information about this destination.
- Touch **Favourite status** to specify a favourite category for the displayed destination in the following menu or to change the displayed one ⇒ page 81, "Specifying a favourite category".
- Touch **Name** to change the displayed name used to store the destination in the destination memory ⇒ page 11, "Input mask for free text input".

If the flagged destination is not renamed, it will be overwritten when **Save** is touched again. If you would like to keep a flagged destination, it must therefore be renamed. ◀



Fig. 65 Available favourite categories.

- Touch the **Save** function key to save the destination under the displayed name and favourite status.

Specifying a favourite category

- In the *Edit/save entry* menu, touch the ⇒ fig. 64 **Favourite status** function key.
- Touch the favourite category where you would like to save the destination ⇒ fig. 65. The menu is closed and the selected favourite category is displayed in front of the ⇒ fig. 64 **Favourite status** function key.
- Touch the **Save** function key to save the destination using the displayed name and favourite status.

A destination which was assigned a favourite category can be called up using the ⇒ page 67, fig. 51 **Favourites** function key and is displayed in ▶

the map display with the assigned symbol, depending on the setting ⇒ page 122, "Displaying favourite symbols". ◀

Deleting the destination memory or recent destinations list

All entries in the destination memory and all automatically saved destinations can be deleted in one go.

- Open the *Navigation* main menu ⇒ page 65.
- In the *Navigation* main menu, touch the ⇒ page 65, fig. 48 **[Save]** function key and in the pop-up window which opens touch **[Manage memory]**.
- In the *Manage memory* menu, touch the **[Delete destination memory]** or **[Delete all recent destinations]** function key.
- Confirm the corresponding security check to delete the entire destination memory or all of the recent destinations in one go.

In the list view of the destination memory ⇒ page 80 and recent destinations ⇒ page 80, you can also delete the saved destinations individually. ◀

Saving or editing the home address

You can specify an address as a home address or edit the saved home address.



Fig. 66 Menu: new destination.

Select the menu *New destination* by pressing the **[NAV]** function selection button and touching the **[New destination]** function key ⇒ page 67.

Selecting a home address

- In the *New destination* menu, touch the **[Home address]** function key.

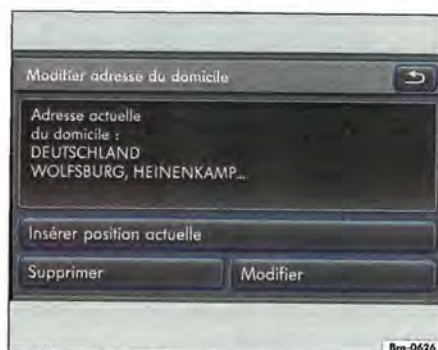


Fig. 67 Menu: edit home address.

- If a home address has not been defined, the *Enter home address* menu is opened.
- If you touch the **[Destination entry]** function key, the *Address entry* menu is opened. Select the home address as described above ⇒ page 68, "Selecting a target address". ▶

Saving the current position as home address

- In the *New destination* menu, touch the **[Home address]** function key.
- If a home address has not been selected, the *Enter home address* menu is opened.
- If you touch the **[Current position]** function key, the current vehicle position is saved as a home address.

Editing the saved home address

- Touch the **[SETUP]** function selection button to change or delete a home address already saved in the *Navigation settings* menu.

- In the *Settings* main menu, touch the ⇒ page 120, fig. 105 **[Navigation]** function key, and in the *Navigation settings* menu, touch the ⇒ page 124, fig. 108 **[Define home address]** function key.

- In the *Edit home address* menu, you can ⇒ page 82, fig. 67 **[delete]**, **[edit]**, or overwrite the currently saved home address using the **[Setting current position]** function key.

Navigation settings: editing the home address

[Setting the current position] – the saved home address is overwritten with the current vehicle position.

[Delete] – deletes the saved home address. A new home address is saved as described above.

[Edit] – the current saved home address is opened in the *Address entry* menu and can be changed there as described in the chapter "Changing a displayed target address" ⇒ page 68. ◀

Tour mode

General

In Tour mode, multiple destinations can be travelled during route guidance.



Fig. 68 Navigation main menu.

- In the *Navigation* main menu, touch the ⇒ fig. 68 **[Extras]** function key and then **[Tour mode]** to change to Tour mode ⇒ fig. 69.



Fig. 69 Navigation main menu: Tour mode.

The **[NAV]** function selection button is used to switch over to navigation. The last set menu will be selected. The *Navigation* main menu is called up by pressing the **[NAV]** function selection button again. The *Navigation* main menu is dis- ▶

played either in "normal" Travel destination mode ⇒ fig. 68 or in Tour mode ⇒ fig. 69.

To leave Tour mode ⇒ page 85.

The "travel destination" is the end point of a tour.

A "stopover destination" always appears before the travel destination.

A trip with multiple destinations is called a "Tour".

A tour always consists of a **travel destination** which is the end point of the tour and a **maximum of five stopover destinations**.

A **maximum of 10 tours** can be saved in the destination memory ⇒ page 87.

Overview of functions in Tour mode

– After entering a travel destination, you can enter an additional stopover destination ⇒ page 84, "Entering a stopover destination".

– You can also switch directly to Tour mode to enter an entire series of destinations ⇒ page 86, "Compiling a new tour in Tour mode".

Entering a stopover destination

After selecting a travel destination, you can insert an additional "stopover destination" that can be travelled to during route guidance.



Fig. 70 Navigation main menu: Extras pop-up window.

If you would like to travel to one or more multiple destinations in addition to the displayed travel destination, proceed as is

– Additionally, you can save a compiled tour ⇒ page 87, "Saving a tour"

– as well as call up a saved tour ⇒ page 87, "Calling up a saved tour"

– or edit a saved tour ⇒ page 88, "Editing a saved tour".

Additional symbols

Displays in the tour overview ⇒ page 86, fig. 73.

□ – Starting point of the tour

➤ – Stopover destination of a tour

✠ – End point of a tour

✠ opens a pop-up window to open a detail view, edit the destination, or insert an additional destination.

Route guidance in Tour mode

During route guidance, the parameters for driving time or arrival time always refer to reaching the final travel destination. The estimated travel time or arrival time at a stopover destination is not displayed. ◀

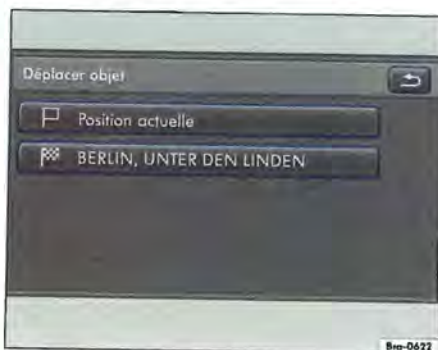


Fig. 71 Moving a menu object: specifying the position for a new destination.

described below. You can also insert the additional destination as a new end point ▶

of the tour after the displayed travel destination.

– After selecting a travel destination, in the *Navigation* main menu, touch the ⇒ page 84, fig. 70 **Extras** function key. A pop-up window is opened.

– If you touch **New stopover destination**, the *New destination* menu is opened to select a stopover destination. The unit changes to Tour mode automatically in the background.

– Select the stopover destination as is described ⇒ page 67, "Destination entry: selecting a destination".

– When you have confirmed the new destination, you will be requested to select an entry after which you will place the new destination. This is how you specify the order of destinations you will travel. Touch **OK** to close the message.

– In the *Move object* menu, if you touch ⇒ page 84, fig. 71 **Current position**, the destination is set as the first stopover destination. If you touch the last destination of the tour, the new destination will become the end point of the tour, the new travel destination. The former travel destination becomes a stopover destination.

– The *Navigation* main menu is now opened in Tour mode ⇒ page 83, fig. 69.

– Touch the **Start** function key to start route guidance for the first stopover destination of the displayed tour ⇒ page 95.

– Touch the **Extras** function key and then **Edit tour** to add additional destinations to your tour ⇒ page 86, "Compiling a new tour in Tour mode".

Calling up Tour mode

You can change directly to Tour mode from the *Navigation* main menu to compile a new tour ⇒ page 86. ◀

Leaving Tour mode



Fig. 72 Navigation main menu in Tour mode: Extras pop-up window.

Note that all stopover destinations are deleted when you end Tour mode. You can save the displayed tour with all of the stopover destinations before ending Tour mode by touching **Memory** ⇒ page 87.

– In the *Navigation* main menu, touch the ⇒ fig. 72 **Extras** function key and **Leave Tour mode** in the opening pop-up window to end Tour mode.

– Confirm the message "Would you like to leave Tour mode?" by touching the **Leave** function key.

– Only the travel destination previously defined as end point is displayed in the *Navigation* main menu. ◀

Compiling a new tour in Tour mode

You can change directly to Tour mode to compile a tour with multiple stopover destinations.



Fig. 73 Tour plan menu: new tour with a stopover destination.

- In the *Navigation* main menu, touch the $\Rightarrow$ page 84, fig. 70 **Extras** function key and then **Tour mode** to change to Tour mode.
- Touch the $\Rightarrow$ page 85, fig. 72 **Extras** function key and then **New tour** to compile a new tour.
- In the *Tour plan: new tour* menu, touch the $\Rightarrow$ fig. 73 **Start** function key after the display of the starting point or a displayed destination.
- Touch **Destination entry** in the opening pop-up window.
- Select a destination as is described $\Rightarrow$ page 67, “Destination entry: selecting a destination”.

– When you have confirmed the first destination, the menu *Tour plan: new tour* is opened. Touch the **Start** function key after the destination where you would like to insert an additional destination.

– Touch **Destination entry** again in the opening pop-up window and select an additional destination $\Rightarrow$ page 67, “Destination entry: selecting a destination”.

– Touch **Start** when you would like to end the tour entry. In the *Navigation* main menu, the travel destination of your tour and the next stopover destination is displayed.

– Touch the **Start** function key to start route guidance for the first stopover destination of the your tour $\Rightarrow$ page 95.

– Touch the **Memory** function key to permanently store the displayed tour with its own name in the destination memory $\Rightarrow$ page 87, “Saving a tour”.

In the *Tour plan: new tour* menu $\Rightarrow$ fig. 73, “New tour” is the space holder for a name you can assign this tour when saving it.

A tour always consists of a **travel destination** which is the end point of the tour and a **maximum of five stopover destinations**.

Note

Note that all stopover destinations of a compiled tour, except the end point of the trip (the travel destination) are deleted when you end Tour mode without saving the displayed tour ahead of time $\Rightarrow$ page 87. $\blacktriangleleft$

Saving a tour

You can permanently store a tour displayed in Tour mode in the destination memory.

A tour can only be displayed in Tour mode and can only be saved in Tour mode.

– Touch the $\Rightarrow$ page 83, fig. 69 **Save** function key to save a displayed tour in the *Navigation* main menu $\Rightarrow$ page 83, fig. 69.

– Touch **Save tour** in the opening pop-up window. An input mask for free text entry is opened.

– Give your tour a name $\Rightarrow$ page 11, “Input mask for free text input”.

– Confirm the name by pressing **OK**.

– The message “**Tour saved**” appears. Touch **OK** to confirm the message.

In the *Navigation* main menu the name of the tour, the destination, and the first stopover destination is displayed. You can edit the saved tour later $\Rightarrow$ page 88.

Name the tour with a unique, informative name so that you can later distinguish between individual tours. If there is already a tour saved using that name, you have to give it a different name.

When you have saved the tour, you can leave Tour mode again, without losing the displayed tour $\Rightarrow$ page 85.

A **maximum of 10 tours** can be saved in the destination memory. $\blacktriangleleft$

Calling up a saved tour

To call up a saved tour, first change to Tour mode.

– In the *Navigation* main menu, touch the $\Rightarrow$ page 84, fig. 70 **Extras** function key and then **Tour mode**.

– Touch the **Memory** function key and **Load tour** in the opening pop-up window.

– In the *Load tour* menu, touch the **Start** function key next to a tour name to display information about the corresponding tour in the *Tour details* menu.

– In the *Tour details* menu, if you touch the **Select** function key or in the *Load tour* menu if you directly touch the name of a tour, the selected tour is displayed in the *Navigation* main menu.

– Touch the **Start** function key, to start route guidance. $\blacktriangleleft$

Editing a saved tour

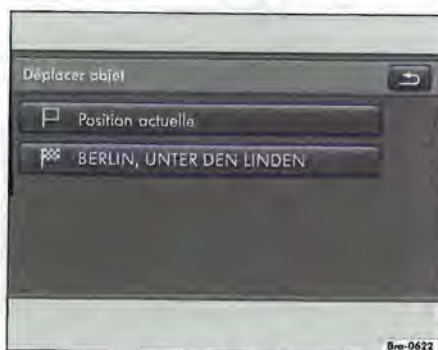


Fig. 74 Specify the position of a new destination.

A tour can only be displayed in Tour mode and can only be edited in Tour mode. To select the tour to be edited ⇒ page 87.

– If you touch the tour at the top of the display ⇒ page 83, fig. 69, the tour plan is opened for this tour ⇒ page 86, fig. 73.

– As an alternative open the tour plan by touching the ⇒ page 85, fig. 72 **Extras** function key. In the opening pop-up window, touch **Edit tour**.

– In the tour plan, touch the ⇒ page 86, fig. 73 **Ⓛ** function key next to the destination you would like to edit. The pop-up window with the editing options for this entry is opened.

– If you touch the **Ⓛ** function key next to the starting point of the tour “**Ⓛ**”, you have the option using **Destination entry** to specify the first stopover destination after the starting point. The starting point is specified automatically by the GPS position specification and therefore cannot be changed.

– If you touch the **Ⓛ** function key next to one of the other destinations, you are offered additional options for editing.

– Select the desired option by touching it.

Options for editing a tour destination

Details – opens the *Destination data* menu for the detail view of the selected destination. Touch the **Show on map** function key to display the destination in the map ⇒ page 102. The **On** function key will return you to the detail view.

Start – touching **Start** again only starts route guidance for this tour destination, and any stopover destinations are ignored. Touch **Back** to change to the view of the tour plan without starting route guidance.

Delete – deletes the displayed tour destination after an additional confirmation.

Move – Touch **Continue** to select an entry after which you would like to move the selected tour destination ⇒ fig. 74.

Destination entry – to enter an additional tour destination ⇒ page 86, “Compiling a new tour in Tour mode”. ◀

Waypoint navigation mode (off-road navigation)

General

Waypoint navigation mode is an off-road function which was developed for travelling in non-digitalised areas at slow speeds. Waypoint navigation mode is not intended for driving on normal streets, since one-way streets, motorways exits and entrances, etc. are not detected.

Operating waypoint navigation

A waypoint tour consists of a chain of waypoints. A waypoint is a geo-position determined by GPS which is saved in the unit with time and date.

When recording a waypoint tour, waypoints can be set automatically or manually. A recorded waypoint tour can be driven in the recorded direction or in the opposite direction.

Waypoints can only be driven in the order that they are stored in the system. There is the option of skipping individual waypoints when driving a waypoint tour or to inform the system the waypoint one would like to “travel toward” (next waypoint).

The system cannot perform alternative routes or automatically avoid obstacles. You have the option while driving a saved waypoint tour, to set additional waypoints manually to save the re-routing around an obstacle, for example, for the next trip.

What can waypoint navigation perform and what can it not:

Waypoint navigation mode is **not** intended for driving on normal streets, because when driving a saved waypoint tour, all of the points have to be driven exactly, and in the same order as they have been saved.

For example, the system would attempt to guide you against the direction of travel on motorways or on a one-way streets in order to reach the set waypoints, if you drove the saved waypoint tour

on public roads in the opposite direction. Visual turning information is also given rather late, and only a general direction of travel is displayed. Therefore it is better to use waypoint navigation mode only for driving in non-digitalised areas without prescribed traffic regulations and only at slow speeds.

Non-digitalised areas are areas that do not have any street or off-road information. Thus natural limits like mountains and rivers are also not detected even if they are shown on the map.

Waypoint navigation mode is thus only an orientation aid for driving in non-digitalized areas.

Thus there is no spoken instructions on a waypoint tour. Only the approximate direction to the next waypoint is displayed.

GPS reception interrupted

If the GPS reception is interrupted while driving because you are travelling for a long time under a canopy of trees, for example, or you are in a tunnel or underground car park, the symbol for displaying your vehicle position **Ⓛ** is shown in grey. The unit can only determine the waypoints then using the vehicle sensors (rotation of the wheels and steering angle).

If this condition last a long time, it will result in inaccuracies in the recording or departing from the tour. This problem is worsened when driving on an unstable surface where the wheels temporarily lose contact with the ground, i.e. can “spin”. ◀

Overview of functions

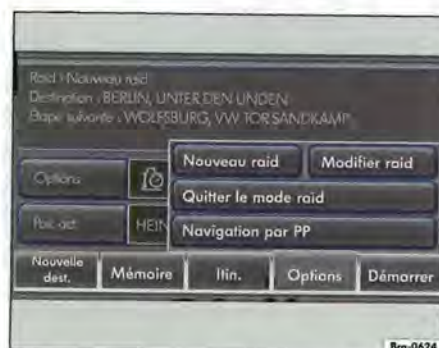


Fig. 75 Calling up waypoint navigation mode.

Opening waypoint navigation mode

- In the *Navigation* main menu, touch the ⇒ fig. 75 **[Extras]** function key.
- Touch the **[Waypoint navigation mode]** function key in the opening pop-up window.
- The *Waypoint navigation* menu is opened and the last active waypoint tour is displayed ⇒ fig. 76.

Leaving waypoint navigation mode

- In waypoint navigation mode, pressing the **[NAV]** function selection button always changes to the *Waypoint navigation* menu.
- Touch the ⇒ fig. 76 **[Extras]** function key there and select **[Exit waypoint mode]** in the opening pop-up window.
- As an alternative, close waypoint navigation mode by calling up the **[New destination]** function key in the *Waypoint navigation* menu.
- When you have reached the destination of a waypoint tour, waypoint navigation mode is ended automatically and the "normal" *Navigation* main menu is opened ⇒ page 83, fig. 68.

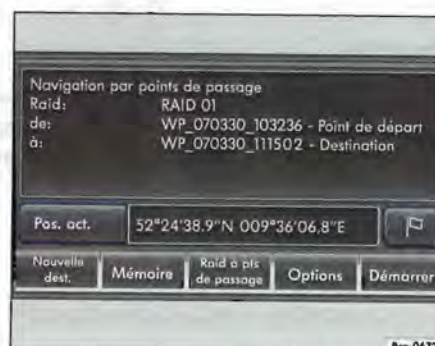


Fig. 76 Waypoint navigation with active waypoint tour.

In the *Waypoint navigation* menu, the last active waypoint tour and your current geo-position is displayed. If a waypoint tour has not been recorded or if everything was deleted, a message is shown. When this happens, the function keys for starting, loading, or editing a waypoint tour are not active.

If a waypoint tour is displayed, touching the **[Start]** function key will start this waypoint tour ⇒ page 93, "Driving a saved waypoint tour".

Operating the menus and sub-menus is done analogously the menus that have been described so far, so they will not be described in detail here.

- Touching the displayed entry or the **[Info]** function key always opens the detail view.
- Touching the **[Edit]** function key opens a pop-up window for editing the accompanying entry analogously to ⇒ page 88, "Editing a saved tour".
- For input masks to change a name ⇒ page 10, "Using input masks".

The **[New destination]** function key

Touching the **[New destination]** function key opens a security check:

[Back] – switches back to waypoint navigation mode.

[On road destination] – ends waypoint navigation mode and opens the *New destination* menu

⇒ page 67, fig. 51 to select an "On road destination" from the available navigation data.

The **[Memory]** function key

Touching the **[Memory]** function key opens a pop-up window:

[Load waypoint tour] – opens a list of saved waypoint tours. Touch the waypoint tour to select it.

[Manage waypoint tour memory] – opens the waypoint tour memory. Saved waypoint tours can be displayed, renamed, or deleted.

The **[Waypoint tour]** function key

Touching the **[waypoint tour]** function key opens a pop-up window to record a new waypoint tour or edit the displayed one.

[Record waypoint tour] – after the waypoint tour is given a name and the recording mode is se-

lected, starts the recording of a new waypoint tour. A displayed waypoint tour is saved automatically and can be called up later using the **[Load waypoint tour]** from the **[Memory]**.

[Edit waypoint tour] – opens a list with the waypoints of the tour currently displayed in the *Waypoint navigation* menu. The waypoints in the list can be displayed, deleted, moved, or renamed in the map. Also, other waypoints can be added by selecting them on the map or entering the GPS position, analogous to ⇒ page 74, "Selecting a travel destination from the map" and ⇒ page 75, "Entering a travel destination using coordinates". If you would like to edit a waypoint tour other than the one that is displayed, it must be called up using **[Load waypoint tour]** from the **[Memory]**.

Plotting a waypoint tour

When recording a waypoint tour, it is recommended to have waypoints set automatically by the system.

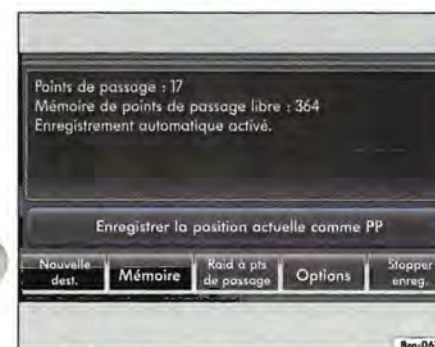


Fig. 77 Plotting in the Waypoint navigation menu.

– In the *Waypoint navigation* menu, touch the ⇒ fig. 77 **[Waypoint tour]** function key.

– Touch the **[Plot waypoint tour]** function key in the opening pop-up window.



Fig. 78 Plotting in the map display with an additional window in the compass view.

– If a tour is already displayed in the *Waypoint navigation* menu, you need to select in the following menu whether you would like to record the displayed **[Expand tour]** or a **[New tour]** by touching it.

– Give the waypoint tour an informative name ⇒ page 10, "Using input masks". Confirm the name by pressing **[OK]**.

- Select a recording mode in the following by touching it.
- Touch the **Automatic** function key to have the system set the waypoints automatically during recording (recommended).
- Touch the **Manual** function key if you would like to set all of the waypoints yourself during recording.

– After the recording begins, the number of used and available waypoints and the set recording mode is displayed using the **Waypoint navigation** menu ⇒ page 91, fig. 77.

– Press the **MAP** function selection button to change to map display. Pressing the **MAP** function selection button again opens and closes the additional window ⇒ page 91, fig. 78. Further information on operation in the map display can be found in chapter ⇒ page 102, “MAP function selection button”.

– Press the **NAV** function selection button to return to the **Waypoint navigation** menu ⇒ page 91, fig. 77.

– Touch the **Save current position as waypoint** function key to set waypoints manually. In map display, you can find this function key in the pop-up window of the ⇒ page 91, fig. 78 **Plot** ⇒ page 93, “The function key in the map display” function key.

After recording, the saved tour is displayed in the **Waypoint navigation** menu. You can further edit the tour there.

Naming waypoints

If a waypoint is set, it is given a name automatically. The waypoint name consists of date and time when it was saved (year/month/day - hours/minutes/seconds).

You can rename the waypoints of the displayed waypoint tour afterwards.

It is recommended to name the starting and ending point with a unique name so that the selected direction of travel can always be clearly detected when driving the tour.

In the **Waypoint navigation** menu, touch the **Edit waypoint tour** function key and in the list view, touch the waypoints on the **☐** function key after the waypoint whose name you would like to change. In the pop-up window, touch **Rename** and give it an individual name using the input mask ⇒ page 10, “Using input masks”.

Recommendations for recording

When recording a waypoint tour, it is recommended to have waypoints set automatically by the system. This is because the system sets the waypoints so that they can be best driven later. At any time, you can still add waypoints manually or change the type of recording.

During automatic recording, the system registers each direction change using sensors in the vehicle and sets a waypoint before and after the turning point.

On long straight sections, a waypoint is set automatically every few kilometres.

At any time, you have the opportunity to set additional waypoints manually as has been described, and to name them later to designate special landmarks or to be able to find positions along the route again.

It is not recommended to set a waypoint manually on the “vertex” of a curve. When driving the tour, the complete direction change would be displayed using this waypoint. The result of this would be that the driver could only poorly estimate the extent of the change in direction before driving into a curve while driving the waypoint tour, and the direction instructions would come very suddenly, one directly after the other.

It would be more reasonable, as the system does automatically, to set a waypoint when entering and when leaving a curve. When driving the waypoint tour, the complete direction change is displayed shortly before reaching the turning point. This allows you to better prepare yourself for the change in direction.

Since the number of waypoints is limited to 500, under certain circumstances it could be useful to turn off automatic recording. When a lot of curves must be driven on clear off-road conditions, because of street conditions for example, the system would “use” trivial waypoints that could better be used later.

Switch off the automatic recording using the **Record** function key.

The **Record** function key in the map display

In the **Record** function key, the waypoints previously used for the tour and the total still available are displayed.

Touching the ⇒ page 91, fig. 78 **Record** function key opens a pop-up window to control the recording.

Stop – ends the recording; the last set waypoint is used as the end point of the waypoint tour.

Automatic recording – switches the function on or off that waypoints are set automatically when there is a change in direction using the sensor system in the vehicle. A check in the checkbox ☒ indicates that the function is switched on.

Add current pos. as waypoint – sets a manual waypoint at the current vehicle position.

Further information on operation in the map display can be found in chapter ⇒ page 102, “MAP function selection button”.

Driving a saved waypoint tour

The waypoints of a waypoint tour can only be driven in order, one after the other. But individual points can be skipped.

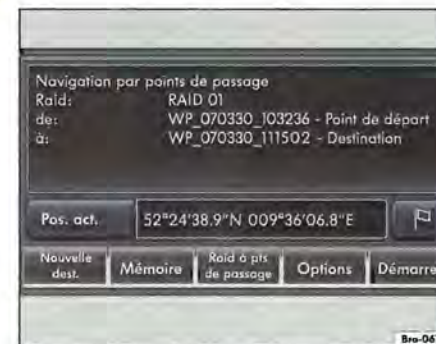


Fig. 79 Waypoint navigation with active waypoint tour.

Before starting to drive a waypoint tour, you should be near the desired starting point of this waypoint tour.

Selecting a waypoint tour

– In the **Waypoint navigation** menu, touch the ⇒ fig. 79 **Memory** function key.

– Touch the **Load waypoint tour** function key in the opening pop-up window.

– Select a waypoint tour from the list by touching it.



Fig. 80 Driving a waypoint tour in the map display with additional window.

Driving a displayed waypoint tour

– In the **Waypoint navigation** menu, touch the ⇒ fig. 79 **Start** function key. The **Start from which waypoint?** menu is opened. The starting and destination point of the waypoint tour are displayed above.

– Touch the **Turn around waypt. tour** function key to drive the selected tour in the opposite direction. The starting and destination point of the waypoint tour are displayed above in the changed order.

- Touch to select which waypoint you would like to use to start the waypoint tour in the displayed direction. If **[From the closest]** is selected, the waypoint tour starts at the next waypoint “as the crow flies”. Off-road characteristics are ignored here.

Stopping route guidance

- In map display touch the third function key below with the display of the distance to the next waypoint and in the opening pop-up window, touch the **[Stop route guidance]** function key.

- As an alternative press the **[NAV]** function selection button and then touch the **[Stop]** function key.

“Starting” off in a saved route is not detected by the system automatically. In this case, you need to select **[From the closest]** as the option for the starting point of the waypoint tour.

When you have reached the starting point, you will hear the announcement: “You have reached the stopover destination!”. When you reach a manually set waypoint (black in the map display) a brief signal tone sounds. All other acoustic navigation information is suppressed. When the end point of the tour is reached, an additional announcement is made.

Starting **[From the first]** waypoint

If you have chosen the “the first” waypoint as the starting point for the waypoint tour, the option is offered to drive to this point using “normal” “On road” route guidance. Touch the **[On road]** function key when the starting point of the waypoint tour can be reached using public roads. Of course, the requirement for this is that the navigation data valid for this area is available in the unit ⇒ page 60, “Navigation data and the navigation DVD”. Otherwise, touch the **[Off-road]** function key.

While driving

Follow the turning instructions to the extent possible. When you are 50 meters from the waypoint, the navigation recommendation is given for the next waypoint.

If the waypoint was not reached, you have to skip it otherwise the system attempts to continue to guide you to this waypoint. In the third function key below in the map display, the distance to the next waypoint and the number of this waypoint, corresponding to the order in the waypoint tour, is displayed ⇒ page 93, fig. 80.

Touch this function key and in the pop-up window select **[Next waypoint]** to skip the waypoint where the system is trying to guide.

As an alternative press the **[NAV]** function selection button and then touch the **[Next waypoint]** function key.

Touch the function keys **[Prev. waypoint]** or **[Previous waypoint]** in the corresponding menu to drive to the last waypoint again.

While driving a waypoint tour, touch the third function key at the bottom in map display and in the opening pop-up window touch

[Add current position as waypoint] to expand the tour with additional waypoints. You can designate landmarks and name them later for example, or save the detour around a new obstacle on the route. As an alternative, call up this function by pressing the **[NAV]** function selection button and touch the **[Waypoint tour]** function key.

Navigation recommendations and symbols in map display

When you are driving a saved waypoint tour, you only hear the starting and end point of the waypoint tour. For all other information, it is displayed using direction arrows in the display of the combi-instrument and the approximate direction of travel to the next waypoint is displayed in symbol display on the screen.

In map display automatically set waypoints are grey, manually set ones are black and starting and ending points are blue. The end point is also designated by the symbol .

All points displaying your waypoint tour are connected by a line like the pearls of a necklace. The connection between two points is shown as a straight line, “curves” are not displayed.

Direction arrows always indicate the direction to the next waypoint as the crow flies. Directions instructions for the next waypoint are given briefly before reaching the upcoming waypoint. So don't drive too fast! 

Route guidance

Starting and stopping route guidance



Fig. 81 3D map display during route guidance.

Select a travel destination ⇒ page 67, “Destination entry: selecting a destination” or enter a tour ⇒ page 83 and start route guidance as is described in the corresponding chapter. The unit switches over to map display ⇒ fig. 81.

route guidance in map display

- In map display touch the ⇒ fig. 81 **[... / ...]** function key and in the pop-up window touch **[Stop route guidance]** to interrupt route guidance. The **[... / ...]** function key changes to **[Navigation]** ⇒ page 102, fig. 86.

- If you touch the **[Navigation]** function key and in the opening pop-up window touch the **[Start route guidance]**, route guidance will be continued at the current position.

Route guidance in the Navigation main menu

- Touch the **[NAV]** function selection button after starting route guidance to switch to the *Navigation* main menu.



Fig. 82 Navigation main menu during route guidance.

- If you touch the ⇒ fig. 82 **[Stop]** function key, the route guidance is interrupted and “Start” is displayed again in the function key.

- If you touch the **[Start]** function key, route guidance is continued at the current position.

Selecting one of three alternative routes

- If you have selected in the *Navigation settings* the function “Suggest 3 alternative routes” ⇒ page 124, after route guidance has been started, three routes for the selected travel destination are calculated. Be patient!

- When the calculation is finished, three routes to the destination are displayed in the overview map. The three routes correspond to the selected route options “Fastest”, “Shortest” and “Most economic” route ⇒ page 66, “Specifying parameters for route calculation”.

– Additional information about each route is displayed in the function keys on the right. If you touch one of these function keys, route guidance is started on the selected route. Depending on which route was selected, the route options for navigation are changed accordingly. You can change the route options again later ⇒ page 66.

After route guidance has started, the route to the first travel destination that meets the parameters is calculated ⇒ page 66, "Specifying parameters for route calculation".

Issuing navigation recommendations

Navigation recommendations are issued as navigation announcements and displays in the combi-instrument display and the screen.



Fig. 83 Visual navigation recommendation in the additional window of the map display.

When route guidance starts, the system automatically switches to map display.

– Press the button on unit ⇒ page 2, fig. 1 if you would like to repeat the last navigation announcement.

– In map display touch the function selection button to display the additional window.

– Touch the function key in the upper left additional window.

When switching to map display, the map in the last selected display type is displayed (2D, 3D, topographical) ⇒ page 103, "Changing display type".

Other functions and displays during route guidance

- Show routes or manoeuvre list ⇒ page 100.
- Function keys and displays in map display ⇒ page 102, "MAP function selection button"
- Dynamic route guidance with TMC (Traffic Message Channel) ⇒ page 98
- Starting virtual demonstration trip ⇒ page 124, "Navigation settings". ◀

– In the opening pop-up window touch to display travel direction arrows in the additional window ⇒ fig. 83.

– In the opening pop-up window touch to display an overview map in the additional window with the starting and ending point. Briefly touch this map to change the display type.

– Touch the function key or the function selection button to close the additional window.

Information on other options available in the additional window ⇒ page 106, "Display options in the additional window".

Other information on the map display ⇒ page 102, "MAP function selection button".

Navigation recommendations while driving

You will hear the first announcement after the route has been calculated, e.g. "Continue along the road". Up to three announcements will be made before a turn has to be made, e.g. within a town "Prepare to turn left", "Turn left after 300 meters" and "Now turn left". For the message before the last one, a proximity bar is displayed to the right next to the turning arrow in the screen or display view ⇒ fig. 83. The prox-

imity bar shows how far away the turning point is. The distance to the next change of direction will be shown in the display after you have turned.

The distances that are announced depend highly on the type of road being travelled. On motorways, the first announcement occurs 2500 meters before an exit.

On multi-lane roads that branch, corresponding messages are issued, for example "Prepare to drive on the left side" and then "Now drive on the left side".

The function key can be used to select the option in the map display ⇒ page 103. Then when driving and turning on multi-lane roads in map display, a small additional window with a lane recommendation is shown when the corresponding information is recorded in the navigation data used. The displayed lane recommendation always displays the direct turning situation with the locally available driving lanes.

Approximately 300 meters before entering a roundabout, you will be told which exit to use, e.g. "You should leave by the second exit.". The announcement will then be "Now turn at the second right" when you are travelling round the roundabout. If it is a large roundabout, a third message "Exit now" is issued.

Travel destination reached

An announcement will be made when you reach your destination. If the destination is on a digitalised road, you will hear the announcement "You have reached the destination" on arrival. If the destination is not on a digitalised road, you will receive the announcement "You have reached the destination area". The latter may occur if you have entered the destination using coordinates and it is not on a digitalised road.

Tour plan route guidance

When departing from a tour plan, the route guidance starts automatically for the next destination after reaching a stopover destination (announcement "You have reached the destination"). If a stopover destination cannot be reached exactly, this stopover destination must be deleted from the tour plan before the route guidance to the next destination can be continued. If route guidance to the next destination is started manually, only this destination is used

and other destinations of the tour plan will be ignored ⇒ page 88, "Editing a saved tour".

Traffic congestion during dynamic route guidance

⇒ page 98, "Dynamic route guidance with TMC (Traffic Message Channel)"

If the "Dynamic route" is set to **automatic** in the route options, you will hear the announcement: "Warning! The route was changed due to the current traffic problems.", if there is traffic congestion on your route ⇒ page 99, "Dynamic route ► automatic".

Such an announcement is also issued when there were traffic problems on the original route calculation which has now been rectified and the navigation system now sees a chance to travel a more favourable route.

If "Dynamic route" is set to **manual** in the route options, a pop-up window is opened where information is given about the announced traffic congestion on your route and you will hear the announcement: "The route is being re-calculated taking into account the traffic congestion!" ⇒ page 99, "Dynamic route ► manual".

Shortly before announced traffic congestion, you will be informed about this thoroughly by an announcement: "Warning! Traffic congestion!".

Setting for the Navigation announcements

You can, whilst a navigation recommendation is being made, change the volume using the volume control ⇒ page 2, fig. 1 to a defined minimum or maximum volume. All following announcements will then be made at this volume.

To switch off the navigation recommendations completely ⇒ page 124, "Navigation settings".

WARNING

Please observe the laws of road traffic legislation when following the recommendations made by your radio/navigation system.

• Please keep your attention on driving at all times. Accidents and injuries can occur if the driver is distracted.

• Always observe safety information concerning the use of the navigation system ⇒ page 59.



Note

- If you miss a turning during route guidance and you have no possibility to turn the vehicle round, keep on driving until the navigation system has calculated a new route for you ⇒

Dynamic route guidance with TMC (Traffic Message Channel)

During dynamic route guidance, traffic announcements broadcast by a TMC station will be incorporated into the route calculation.

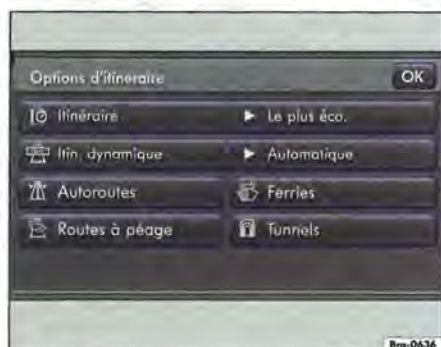


Fig. 84 Route options.

In route options you can specify whether TMC traffic information should be included in the route calculation or not, and whether a detour should be calculated automatically if needed or only if confirmed. Route options can be altered whilst the route guidance function is active.

Switching dynamic navigation on and off

- In the *Navigation* main menu, touch the ⇒ page 95, fig. 82 **[Options]** function key.
- In the map display, touch ⇒ page 102, fig. 86 **[Navigation]** or during route guidance touch ⇒ page 95, fig. 81 **[⊕... / ⊖...]** and in the opening pop-up window touch **[Route options]**.

- The quality of the announcements issued by the unit depend on the navigation data available and during traffic congestion, also on the traffic information sent. The radio stations broadcasting this information are responsible for the content and the quality of the traffic information sent. ◀

- In the *Route options* menu ⇒ fig. 84 touch the function key **[Dynamic route]** and select a setting by touching it in the opening pop-up window.

- Confirm your setting by pressing **[OK]**.

Traffic congestion received by TMC that is on the route is shown on the map by a coloured symbol. Traffic congestion that is not on the route is shown on the map by a grey symbol ⇒ page 104, "Symbols for displaying traffic congestion". The direction where the traffic congestion is located is shown by an arrow in the symbol. The length of the traffic congestion is displayed in the map by continuous car symbols on the route.

You can have all of the currently received TMC traffic information displayed in a list ⇒ page 107, "TRAFFIC function selection button".

Dynamic route ► off

If dynamic navigation is switched off, you will not be given traffic congestion messages concerning your route during route guidance. TMC traffic information is nevertheless updated automatically in the unit ⇒ page 99, "Requirements for dynamic route guidance" and displayed by pressing the **[TRAFFIC]** function selection button ⇒ page 107, "TRAFFIC function selection button".

If one of the traffic problems is on your route, you can switch on dynamic route guidance during current route guidance or block the route manually ⇒ page 101, "Manually blocking the route section". ▶

Dynamic route ► manual

If dynamic navigation is set to **manual**, you can select during route guidance if you want to bypass the traffic problems on your route or not ⇒ page 99, "Requirements for dynamic route guidance".

If the navigation system receives a traffic problem that is on the calculated route, the driver is informed by an announcement, and a message about the traffic problem in a pop-up window.

The expected delay when bypassing this traffic congestion and the length of the detour are displayed. The expected delay from driving through the traffic congestion is also displayed.

- Touch **[Current route]** to stay on the calculated route and to drive through the traffic congestion.
- Touch **[Detour route]** to calculate a detour for the signalled traffic congestion.

Dynamic route ► automatic

If dynamic navigation is set to **automatic**, you will automatically be re-routed during route guidance around traffic problems on your route ⇒ page 99, "Requirements for dynamic route guidance".

After receiving a traffic message relevant to your route, you will hear the spoken instructions "Warning! The route was changed due to the current traffic problems.", informing you about a change in the current route guidance. This function will automatically guide you round traffic jams or blocked roads, if this will help get you to your destination faster.

Such an announcement is also issued when there were traffic problems on the original route

calculation which has now been rectified and the navigation system now sees a chance to travel a more favourable route.

Requirements for dynamic route guidance

TMC (Traffic Message Channel) is a digital radio data service for the **constant** transmission of traffic reports.

The unit is constantly supplied with TMC traffic messages in the background when a TMC transmitter can be received at the current location.

The quality of the traffic messages sent depends on the radio station broadcasting it. The reception of TMC traffic messages cannot be switched on or off.

The transmitter must not be the TMC transmitter.

TMC traffic messages can only be evaluated by the device and displayed when the navigation data for the currently driven area is stored in the unit memory or can be called up using an inserted navigation DVD.

The current TMC traffic messages can be displayed by pressing the **[TRAFFIC]** function selection button ⇒ page 107.



- If there are serious traffic problems, you may find that a diversion based on the TMC information does not save you time as the alternative route is also subject to traffic problems.
- You can also block the route manually if an upcoming traffic problem has not yet been recorded via TMC traffic messages ⇒ page 101. ◀

Showing routes or a manoeuvre list

During route guidance, the route or manoeuvre list can be shown to display the route section or turning points yet to be driven.



Fig. 85 Manoeuvre list in the map display.

The route or manoeuvre list can be displayed only during route guidance.

Additional window in the map display

- In map display touch the **[MAP]** function selection button to open the additional window.
- Touch the function key at the upper left in the additional window and the **[Manoeuvre list]** in the opening pop-up window. The manoeuvre list is displayed ⇒ fig. 85. The route list can only be called up using the *Navigation* main menu.

Navigation main menu

- Open the *Navigation* main menu during route guidance by pressing the **[NAV]** function selection button.
- In the *Navigation* main menu, touch the **[Route]** function key and in the opening pop-up window touch **[Route list]** or **[Manoeuvre list]**.

In the **Manoeuvre list** the turning points yet to be driven are displayed in a list with travel direction arrows. Street names or street designation refers to streets where turns are made ⇒ fig. 85.

In the **route list** the street names or street designation of the route sections to be driven are displayed in a list.

In the additional window of the map display, the symbol display with visual navigation recommendations or an overview map are displayed during route guidance ⇒ page 96.

Additionally, information about the current vehicle position can be displayed in the additional window at any time, even if there is currently no active route guidance ⇒ page 105, "Additional window in map display".

Note

It takes some seconds after route guidance has started for the route list and manoeuvre list to be compiled so that it can be displayed. ◀

Manually blocking the route section

Upcoming route sections can also be blocked manually.

Blocking the route section

- During route guidance, touch in the map display the **[+... / -...]** function key or in the *Navigation* main menu, touch the **[Route]** function key.
- Touch the **[Congestion ahead]** function key in the opening pop-up window. An overview map with the current vehicle position and the travel destination is displayed.
- Turn the settings knob counter-clockwise, and move the flag symbol starting at the travel destination in the direction of the current vehicle position. If you touch the displayed route with your finger, the flag symbol "skips" directly to this position. The length of the entered block is displayed below in the screen starting at the current vehicle position.

- Press the setting knob or touch the **[OK]** function key when the approximate length of the route section to be blocked is displayed.
- You will receive a spoken announcement that the route contains a blocked route section and the detour is being calculated.

Removing an exclusion

- Press the **[NAV]** function selection button if you are not in the *Navigation* main menu, as the exclusion can only be removed again here.
- Press the **[Route]** function key.
- Touch the **[Remove exclusion]** function key in the opening pop-up window.

Received TMC traffic messages are displayed as traffic problems on the map. Currently reported traffic problems can also be displayed in the list of TMC traffic messages ⇒ page 107, "TRAFFIC function selection button". ◀

MAP function selection button

Map display

During route guidance, map display is shown automatically. You can also switch to map display manually without route guidance being active.



Fig. 86 3D map display with vehicle position.

During route guidance, map display is shown automatically. You can also change to map display manually at any time.

Pressing the **[MAP]** function selection button will change to map display from any menu.

In map display, pressing the **[MAP]** function selection button will open or close the additional window where further information is shown and can be selected ⇒ page 105, "Additional window in map display".

Map display during route guidance differs from "normal" map display in a number of ways. During route guidance the route to be driven is shown as a blue line ⇒ fig. 87. In the bottom line, the distance to the travel destination is shown in the third function key after **[MAP]**. After **[C]** the estimated arrival time or travel time is displayed ⇒ page 124, "Navigation settings".

During route guidance, additional information about route guidance can be called up in the additional window. For example, the manoeuvre list can be shown where the turning points to be



Fig. 87 3D map display during route guidance (map section moved).

travelled are displayed in a list with travel direction arrows ⇒ page 100.

Upcoming route sections can also be blocked manually during route guidance ⇒ page 101.

The following gives a brief overview of the available function keys in both display types:

Using the **[MAP]** function key, the bar with the function keys can be shown or hidden in any view.

Display and operation in map display

The symbol **[V]** indicates the vehicle position and direction of travel.

Points of interest and destinations saved as favourite destinations are shown in the display in accordance with the settings ⇒ page 122, "Map settings".

The map scale is changed by turning the settings knob ⇒ page 2, fig. 1 **[8]**. The "Autozoom" function is switched off ⇒ page 104, "Changing the scale and display".

You can move the displayed map section by pressing and holding your finger on the screen and moving your finger without lifting it.

Centring the map display on vehicle position or travel destination

If you have moved the screen section, another function key is shown in the top right below the function key for compass view ⇒ page 102, fig. 87. If you press this function key, the map is centred again based on the current vehicle position.

In a number of map views, you can centre the view on the travel destination using the **[D]** function key.

Changing display type

The symbol in the second function key **[3D]**, **[2D]** or **[Topo]** shows the currently selected display type. To change it, briefly touch the function key and touch another display type in the pop-up window.

[2D] – two-dimensional: conventional map display from above.

[3D] – three-dimensional: map display from the front at an angle as would be seen approaching from an airplane (see illustrations).

[Topo] – Topographic – conventional map display from above with colour display of landscape forms (mountains, valleys, etc.).

The **[Navigation]** function key in map display without route guidance

Touching the ⇒ page 102, fig. 86 **[Navigation]** function key opens a pop-up window with navigation settings.

[Start route guidance] – starts route guidance or continues route guidance to the travel destination selected in the *Navigation* main menu.

[Enter new destination] – calls up the *New destination* menu to change the travel destination selected in the *Navigation* main menu ⇒ page 67.

[Route options] – to change the parameters for route calculation ⇒ page 66.

[F] – to store the vehicle position as flagged destination in the destination memory.

For additional navigation functions, for example to change the travel destination, open the *Navigation* main menu by pressing the **[NAV]** function selection button ⇒ page 65.

The **[MAP]** function key in map display during route guidance

Touching the ⇒ page 102, fig. 87 **[MAP]** function key opens a pop-up window with route guidance settings.

[Stop route guidance] – stops route guidance at the current position. Route guidance can be continued at any time by touching the ⇒ page 102, fig. 86 **[Navigation]** function key and

[Start route guidance].

[New stopover destination] – calls up the *New destination* menu to enter a stopover destination that you would like to travel to during the current route guidance ⇒ page 84.

[Congestion ahead] – to manually enter a route exclusion ⇒ page 101.

[Route options] – to change the parameters for route calculation ⇒ page 66.

[F] – to store the vehicle position as flagged destination in the destination memory.

For additional navigation functions, open the *Navigation* main menu by pressing the **[NAV]** function selection button ⇒ page 65.

Controlling the media source

The fourth function key ⇒ page 102, fig. 86 **[Radio 2]** indicates the currently selected media source (here the radio station "Radio 2"). To control the selected media source, briefly touch the function key and touch another station (radio mode) or title (media mode) in the pop-up window.

Radio mode: the six station buttons of the *RADIO* main menu are shown.

Media mode: the title name and the function keys for controlling the current media source are shown.

Function key **[Extras]**

Touching the **[Extras]** function key opens a pop-up window for additional settings and displays.

[Destination view] – shows the current travel destination selected in the *Navigation* main menu in map display. The map is centred again on the vehicle position using the function key on the right under the compass view.

[Day/night] – changes between day and night design.

Additional window – opens the additional window. The additional window can also be opened or closed in map display by pressing the **[MAP]** function selection button.

Lane recommendation – during route guidance, a small additional window with a lane recommendation is shown in map display when driving and turning on multi-lane streets. A tick in the checkbox indicates that the function is switched on ⇒ page 96, “Navigation recommendations while driving”.

Changing the scale and display

Touching the function key with the display of the currently selected map scale on the bottom right shows additional function keys for changing the map section and map scale. These function keys are hidden after five seconds of inactivity.

– switches the map display briefly to the overview display (larger scale). After a few seconds, it returns automatically to the last selected zoom display (smaller scale).

or – to zoom in or out in a map, i.e. to change the map scale. Alternatively, move the slider in the scale.

– switches to overview map with a starting and ending point during route guidance.

– to switch on Autozoom during route guidance. If “Autozoom” is active, the map scale is adjusted automatically depending on the route (small scale for driving on the motorway and a larger scale for driving in a town). The switched-on Autozoom is displayed in the scale display by . To switch it off touch it again or manually change the scale using the setting knob ⇒ page 2, fig. 1 .

Symbols for displaying favourite destinations

A favourite category can be specified for saved destinations ⇒ page 81, “Edit/save entry”.

In accordance with the settings, favourite destinations are displayed in the map with their assigned favourite symbol ⇒ page 122, “Map settings”.

Symbol	Designation
	Infrastructure
	Private

Symbol	Designation
	Restaurant
	Sight-seeing
	Business
	Various
	Relaxation
	Shopping
	Sports

Symbols for displaying traffic congestion

The road will be displayed in **red** if the traffic delay is **on** the route that has been calculated. The symbol will be displayed in **grey** if the traffic delay is **not on** the route that has been calculated.

Symbol	Designation
	Slow-moving traffic
	Traffic congestion
	Accident
	Black ice
	Risk of skidding
	Danger
	Road works
	Strong wind
	Street blocked
	Traffic problem (is shown for the entire length of a traffic problem)

Note

- The activated “Autozoom” function is deactivated again when the map scale is manually changed with the setting knob.

- If the function key is used to save a “flagged destination”, it must be renamed in the destination memory if you do not want it to be over-written by the next flagged destination ⇒ page 81.

Location display without route guidance

The current vehicle position is displayed in map display. The scale and display can be changed, additional information can be shown, and map details can be displayed. The displayed section can also be modified.



Fig. 88 Map display for the current location.



Fig. 89 Map display with additional window in the compass view.

In map display without active route guidance the current vehicle position is displayed on the map. You can “look around” on the map and view further information about the additional window.

“Looking around” on the map

- Touch the **[MAP]** function key to change to the map display.
- Turn the menu knob in the map display to change the map scale ⇒ page 104, “Changing the scale and display”.
- Press and hold your finger on the screen and move it without lifting it off the screen to move the displayed map section.

- Touch the function key with the symbol , or and select another view type in the pop-up window ⇒ page 103, “Changing display type”.

Additional window in map display

- In map display press the **[MAP]** function selection button to display the additional window.
- Touch the function key in the top left of the additional window ⇒ fig. 89.
- Select one of the available displays by touching it in the pop-up window which opens.

During route guidance further displays can be selected for the additional window ⇒ page 95, “Route guidance”.

The position of the additional window on the right or left, can be selected in the settings ⇒ page 122.

Display options in the additional window

Compass – indicates compass view with the current direction of travel.

Additional map – indicates a map with the vehicle position in the additional window. To change this map display, touch the map once in the ad-

ditional window. In the following menu, change the display options as described ⇒ page 102, "Map display".

GPS viewer – shows the current vehicle position in coordinates. The number of received satellites is also displayed. For the absolute height above sea level to be shown beside the mountain symbol, at least five satellites must be received simultaneously (display: "3D fix").

TRAFFIC function selection button

Displaying TMC traffic messages

Brief texts in received TMC traffic messages (TMC = Traffic Message Channel) can be called up from a list and are updated automatically in the unit.



Fig. 90 List of announced traffic problems.

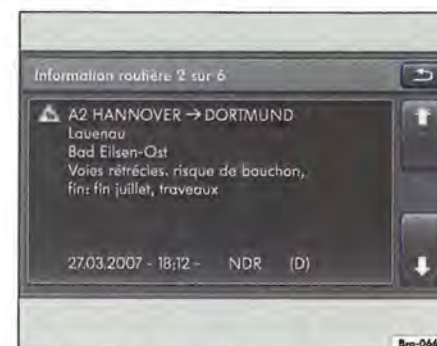


Fig. 91 Detailed view of an announced traffic problem.

TMC traffic messages are used during route guidance to automatically optimise the route during traffic congestion ⇒ page 98, "Dynamic route guidance with TMC (Traffic Message Channel)".

- Touch the **TRAFFIC** function selection button to display the current traffic messages in a list.
- Touch the display of a traffic message to show it in detailed view.
- In the detailed view you can scroll through all the received traffic messages using the arrow keys.

You can specify which TMC stations you would like to receive messages from in *Radio settings* ⇒ page 121, "Selecting preferred TMC stations".

During route guidance, the list contains either all TMC traffic messages in the proximity of the location or only the ones on the calculated route in accordance with the settings ⇒ page 122, "Traffic information settings".

Traffic congestion is displayed in both the detailed view and in the map by a symbol ⇒ page 104, "Symbols for displaying traffic congestion". The direction in which the traffic congestion is located is shown by an arrow in the symbol on the map.

You can also manually calculate a detour to avoid announced traffic congestion coming up on the route ahead of you ⇒ page 101, "Manually blocking the route section".

Note

- The unit is constantly supplied with TMC traffic messages in the background, provided that a TMC transmitter can be received at the current location. The transmitter does not have to be the TMC transmitter.
- TMC traffic messages can only be evaluated and saved by the device if the navigation data for the area currently being driven is stored in the unit memory or can be called up using an inserted navigation DVD.
- The quality of the dynamic route guidance depends on the information contained in the traffic announcements. The radio stations



broadcasting this information are responsible for the content.

- TMC traffic messages are required for dynamic navigation ⇒ page 98.

- If there are serious traffic problems, you may find that a diversion based on the TMC information does not save you time as the alternative route is also subject to traffic problems. ◀



PHONE function selection button

Applies to vehicles: with PREMIUM mobile telephone provision

Requirements and operation

A few basic telephone functions can only be called up using the radio navigation system when the PREMIUM mobile telephone provision has been installed in the vehicle and a mobile phone is paired with it.

- Follow the instruction manual for the PREMIUM mobile telephone provision when pairing with your mobile phone.

The PREMIUM mobile telephone provision combined with a compatible mobile telephone²⁵⁾ is a fully-fledged GSM car telephone system. The mobile telephone must be compatible with the Bluetooth^{®26)} Remote SIM Access Profile (RSAP). The PREMIUM mobile telephone provision does not use its own SIM card, but "borrows" the SIM data from the mobile telephone using a Bluetooth[®] connection. The mobile telephone logs itself out of the GSM network and logs into the PREMIUM mobile telephone provision using the data from the "borrowed" SIM card. The telephone is then controlled exclusively via the controls in the vehicle. The mobile telephone switches into pause mode.

Pairing process and user profile

Before the PREMIUM mobile telephone provision can be used, a one-time pairing process with the mobile telephone must be carried out

to "connect" the units to each other. A user profile is created in the PREMIUM mobile telephone provision which is clearly linked to the mobile telephone and the SIM card.

Once the pairing process has been carried out, the mobile telephone provision PREMIUM will, when the ignition is switched on, connect automatically with the *known* mobile telephone via the Bluetooth[®] connection.

If a mobile phone is not paired, telephone functions cannot be called up using the radio navigation system.

WARNING

Observe the instructions in the following chapter ⇒ page 109, "Safety information".

Note

To operate the PREMIUM mobile telephone provision, follow the instruction manual for your vehicle. ◀

Applies to vehicles: with PREMIUM mobile telephone provision

Safety information

When using the PREMIUM mobile telephone provision, please note the following points for your own safety and the safety of others:

WARNING

Your attention must always be concentrated on road traffic as an absolute priority! The telephone should only be used if the road traffic situation allows. Accidents and injuries can occur if the driver is distracted. ▶

²⁵⁾ Optional equipment.

²⁶⁾ Bluetooth[®] is a registered trademark of Bluetooth SIG, Inc.

**WARNING (continued)**

- Please only use the telephone when the road, weather and traffic conditions are such that it is safe to do so.
- The different volume settings should be selected so that warning signals from outside the vehicle, e.g. a police or fire brigade siren, can be heard at all times.
- It will not be possible to make a telephone call in areas with no signal or with only a very weak mobile telephone network and in some cases, in tunnels, garages and subways. This also means that no emergency calls can be made.

WARNING

- When making telephone calls during your journey please note - road traffic demands the full attention of all drivers. You should only use the PREMIUM mobile telephone provision whilst the vehicle is in motion if the traffic situation allows. Remember: traffic safety always has priority - Risk of accident!
- Always maintain a minimum distance of 20 cm to the vehicle aerial. This applies in particular to passengers with a pacemaker, thus avoiding potential interference with the pacemaker. If you notice that there are problems, switch the PREMIUM mobile telephone provision off immediately - Risk of fatal injury!
- When fuelling, always switch the mobile phone and the PREMIUM mobile telephone provision completely off according to the instruction manual applicable for your vehicle. Electro-magnetic waves could generate sparks which could in turn cause a fire or explosion.
- Switch off the PREMIUM mobile telephone provision at locations where there is a risk of explosion and proceed according to the appropriate notices and regulations. You should also switch the mobile telephone off if necessary - Risk of explosion! There are a large number of locations where there is a risk of ex-

WARNING (continued)

plosion, but they are not always clearly indicated. These include, for example:

- the vicinity of chemical pipelines and tanks,
- below deck on a ship,
- the area around vehicles which run on liquid gas (e.g. propane or butane)
- places where the air is laden with chemicals or particles such as flour, dust and metal powder,
- any other location where you are normally recommended to switch off the vehicle engine.

Caution

Do not forget to follow special regulations for a particular area and always switch the PREMIUM mobile telephone provision off if the use of mobile telephones is forbidden as interference or dangerous situations could be caused through the use of the telephone.

Note

- In some mobile telephone networks, an emergency call can be made without the mobile telephone being connected using the PREMIUM mobile telephone provision when the ignition is switched on and the network is strong enough. In the Telephone menu, select the menu option "SOS".
- If you wish to connect the PREMIUM mobile telephone provision with another device using Bluetooth® wireless technology, please read the operating manual for detailed safety information. Use Bluetooth® compatible products only.
- Most electronic devices are shielded against high-frequency signals. In rare cases, however, electronic devices may not be shielded against the high-frequency signals emitted by the PREMIUM mobile telephone provision. This could cause interference.
- Find out whether special regulations apply for the use of a headset in your country. ◀

Applies to vehicles: with PREMIUM mobile telephone provision

PHONE main menu

A few basic telephone functions can be called up using the radio navigation unit. For further operation of the PREMIUM mobile telephone provision, please read the instruction manual for your vehicle.



Fig. 92 PHONE main menu.



Fig. 93 PHONE main menu: connection established.

Follow the instruction manual of the PREMIUM mobile telephone provision to pair your mobile phone.

- Press the **PHONE** function selection button to open the **PHONE** main menu.

It takes a few minutes after the pairing process until the telephone book data of the paired mobile phone is available on the radio navigation unit.

Display in the PHONE main menu

In the upper line in the centre of the screen ⇒ fig. 92, the name of the mobile phone provider where the SIM card of the paired mobile phone is registered is displayed. The name of the paired mobile phone is displayed in the second line (in the illustration: "FON 01").

During a call, the telephone number or the name of the person you are talking to is displayed in the upper line if they are stored in the telephone book, as well as the call duration ⇒ fig. 93.

The symbol shows an existing Bluetooth® connection.

The green bars on the top right ⇒ fig. 92 or bottom right ⇒ fig. 93 indicate the current field strength (signal strength of the currently received mobile phone transmitter station).

Function keys in the PHONE main menu

- accept, dial, or hold calls. In the PHONE main menu, the call list of the dialled call numbers is displayed after touching it ⇒ page 116, "Call lists".

- end call or refuse call.

- establishes a connection to an emergency number after confirming it. This function is also available without a paired mobile phone. The requirement is that a connection can be established using a mobile phone provider.

and to - speed dial keys; these can be assigned a telephone number ⇒ page 117.

- opens the number pad to enter a telephone number ⇒ page 112.

- opens a pop-up window to select a call list. Only call lists from missed, dialled, or answered calls on the PREMIUM mobile telephone provision can be displayed ⇒ page 116, "Call lists". ▶

Switching off the microphone – switches off the microphone during a call. When the microphone is switched off, the person on the line cannot hear what is being said in your vehicle.

☐ – opens the telephone book of the paired mobile phone to select a telephone number
⇒ page 113. ◀

Applies to vehicles: with PREMIUM mobile telephone provision

Entering a telephone number



Fig. 94 Entering a telephone number.

Follow the instruction manual of the PREMIUM mobile telephone provision to pair your mobile phone.

Entering and dialling a number

– In the *PHONE* main menu, touch the function key on the lower left ⇒ page 111, fig. 92 to open the number pad to enter a telephone number ⇒ fig. 94.

– Touch the number button to enter the number in the input line.

– This is how you enter telephone numbers in the input line.

– Delete the characters in the input line moving from right to left, by touching the ☒ function key.

– Touch the ☐ function key when you have finished entering the telephone number in the input line. The entered telephone number will be dialled ⇒ page 118.

To enter a country code, instead of the first two numbers (for example "00") you can select the character "+". Press and hold the ☐ function key with the small triangle "▼" until a pop-up window is shown with the function keys ☐ and ☐. Accept the desired character by touching the input line – the pop-up window will be closed. If no entries are made, the pop-up window is closed automatically after a few seconds.

The special keys "Asterisk" * and "Hash" # have the same function as on a normal telephone. These characters are needed primarily when sending tone signals during a call ⇒ page 119, "DTMF tones". ◀

Selecting saved telephone numbers

Applies to vehicles: with PREMIUM mobile telephone provision

User profile

Follow the instruction manual of the PREMIUM mobile telephone provision to pair your mobile phone. The saved user profile is loaded.

Telephone book data ⇒ page 113, call lists ⇒ page 116, and saved speed dial keys ⇒ page 117 are assigned a user profile and saved in the PREMIUM mobile telephone provision. They are available when the SIM card is paired again with the PREMIUM mobile telephone provision.

If telephone book entries of the SIM card or the mobile phone have been changed in the meantime, you can start a manual update of the telephone book data ⇒ page 127, "Telephone settings".

A maximum of three user profiles can be stored in the PREMIUM mobile telephone provision. If you would like to pair an additional SIM card, you have to delete a user profile first. To do this, follow the vehicle instruction manual for the PREMIUM mobile telephone provision. ◀

Applies to vehicles: with PREMIUM mobile telephone provision

Telephone book



Fig. 95 Telephone book

Opening a telephone book

– In the *PHONE* main menu, touch the function key on the lower right ⇒ page 111, fig. 92 ☐ to open the telephone book ⇒ fig. 95.



Fig. 96 Displaying a telephone book entry.

Dialling a telephone number from the telephone book

– In the *Telephone book* menu, move the slider in the scroll bar downward to display additional entries.

– Touch the [Search] function key to select a telephone book entry via the search mask ⇒ page 114, "Searching for an entry in the telephone book". ▶

- In the left column, touch a telephone book entry in the display. The first telephone number stored in the telephone book for this entry will be dialled ⇒ page 118.

Displaying information about a telephone book entry

- Touch the  function key to the right of the telephone book entry you would like to display. The telephone numbers stored in this entry are shown ⇒ fig. 96.
- If you touch a telephone number in the display, it will be dialled.

- If you touch the function key to the right of the telephone number, an input mask to modify the stored telephone number is opened ⇒ page 115, fig. 99.
- To modify the displayed telephone number, follow the instructions described in ⇒ page 115, "Modifying a telephone number".

It takes a few minutes after the first pairing process until the telephone book data is available on the radio navigation unit. To do this, follow the vehicle instruction manual for the PREMIUM mobile telephone provision.

The telephone book can also be opened during an ongoing telephone call. ◀

Applies to vehicles: with PREMIUM mobile telephone provision

Searching for an entry in the telephone book



Fig. 97 Search mask for selecting a telephone book entry.

Open the telephone book as is described ⇒ page 113, "Opening a telephone book".

- In the *telephone book* menu touch the ⇒ page 113, fig. 95  function key to select a telephone book entry using a search mask ⇒ fig. 97.
- Touch a character in the keyboard block in the search mask to accept it in the input line.



Fig. 98 Search results from the telephone book.

- Touch the  function key to open the input mask for numbers and special characters. Press  to change to the letter input mask again.
- Only those characters are available that correspond to an entry saved in your telephone book. The number of entries that can be selected with this sequence of characters is displayed in the function key after the input line (in Illustration ⇒ fig. 97 ).

- Delete the characters in the input line, starting at the position of the cursor and moving from right to left, by touching the  function key.
- Touch the function key after the input line to change to the list view of available entries ⇒ fig. 98.

Applies to vehicles: with PREMIUM mobile telephone provision

Modifying a telephone number

A telephone number saved in the telephone book or in a call list can be changed before you dial it. You can add a country code, for example.



Fig. 99 Modifying a telephone number.

To open the display of a telephone number from the telephone book or a call list, follow the instructions described in the corresponding chapter (for example: ⇒ page 114, "Searching for an entry in the telephone book").

- Touch the  or  arrow keys to move the cursor in the input line.
- Touch a character in the keyboard block to insert it after the cursor in the input line.

- You select a number here as described in the chapter *Telephone book* ⇒ page 113.

You can find additional information about input masks in ⇒ page 10, "Using input masks". ◀

- Delete the characters in the input line, starting at the position of the cursor and moving from right to left, by touching the  function key.
- If you touch the  function key, the telephone number displayed will be dialled.
- Touching  will close the input mask.

The entries in the telephone book of the mobile phone cannot be changed permanently on the radio navigation unit. You can only modify a telephone number saved in the mobile phone telephone book when making a call from the vehicle. You can add a country code, for example.

After the telephone number has been dialled, it is then available in the call list ⇒ page 116, "Call lists".

To change an entry in the mobile phone telephone book, see the description in the instruction manual of the mobile phone manufacturer.

If you have changed the data in the mobile phone telephone book or the SIM card since the last pairing, you can update the telephone book data in the unit directly using the *Telephone settings* menu ⇒ page 127. ◀

Applies to vehicles: with PREMIUM mobile telephone provision

Call lists

The call numbers from calls made with the PREMIUM mobile telephone provision and missed calls are saved in call lists and can be called up from these again.



Fig. 100 Selection from a call list in the PHONE main menu.

Only telephone numbers that were missed, dialled, and accepted with the PREMIUM mobile telephone provision in the vehicle are saved. The call lists stored in the mobile phone are **not** copied to the vehicle.

- In the *PHONE* main menu, touch the ⇒ fig. 100 [Call] function key.
- In the pop-up window which opens, select the call list containing the telephone number you would like to select by touching it. The list will be displayed. Telephone numbers with an entry in the telephone book are shown by their name.

- Touch the telephone number or the name to dial it ⇒ page 118.

Use the [Info] function key to show additional information about the saved telephone number. You can also change the telephone number before dialling it ⇒ page 115, “Modifying a telephone number”.

- [Missed calls] – shows a list of calls not answered on the PREMIUM mobile telephone provision.
- [Dialled numbers] – shows a list of telephone numbers that were dialled with the PREMIUM mobile telephone provision.
- [Incoming calls] – shows a list of calls answered on the PREMIUM mobile telephone provision.

If the telephone number from a call list is saved in the telephone book, the name saved in the telephone book is displayed instead of the telephone number.

Incoming calls rejected with the [Reject] function key are saved in the call list of **incoming** calls.

Call lists are always assigned to a user profile and are only displayed when the SIM card is paired again with the PREMIUM mobile telephone provision ⇒ page 113, “User profile”. ◀

Applies to vehicles: with PREMIUM mobile telephone provision

Saving numbers to speed dial keys

The five speed dial keys [Memory 2] to [Memory 6] can each be assigned a telephone number. The speed dial key [Voice mailbox] is reserved for the telephone number of your mailbox.



Fig. 101 Entering or changing a speed dial number.

After the first pairing with the SIM card of your mobile phone, all of the speed dial keys are still unassigned when the *PHONE* main menu is called up for the first time ⇒ page 111, fig. 92.

Assigning speed dial keys

- If you touch a non-assigned speed dial key, the *Speed dial* menu opens to enter the name and telephone number.
- If you touch the ⇒ fig. 101 [Name] function key, an input mask is opened where you can assign a name ⇒ page 11, “Input mask for free text input”.
- If you touch the [Number] function key, a mask is opened to enter the telephone number. A telephone number is entered analogously to the description in the chapter “Modifying a telephone number” ⇒ page 115.
- Touch the [Call list] or [Telephone book] function key to accept a telephone number for this speed dial key from the list.



Fig. 102 PHONE main menu with assigned speed dial key.

- Touch the [Info] function key to delete the entries in all input lines at once, after confirming with [OK].
- When you are finished making your entries in the *Speed dial* menu, touch the ⇒ fig. 101 [OK] function key.
- The name you entered is displayed in the speed dial key in the *PHONE* main menu ⇒ fig. 102. The speed dial key now stored the entered telephone number.

Dialling using a speed dial key

- If you touch an **assigned** speed dial key briefly, its stored telephone number is dialled ⇒ page 118.

Editing assigned speed dial keys

- If you would like to change the telephone number of a speed dial key, press and hold the speed dial key until the *Speed dial* menu is open for editing ⇒ fig. 101. ▶

– You can change the name and the telephone number by calling up the input mask or you can select another entry from the telephone book or call list as was described above.

The speed dial key assignments remain saved in the unit, but are only shown when the SIM card is paired again with the PREMIUM mobile telephone provision $\Rightarrow$ page 113, "User profile".

Applies to vehicles: with PREMIUM mobile telephone provision

Making a call

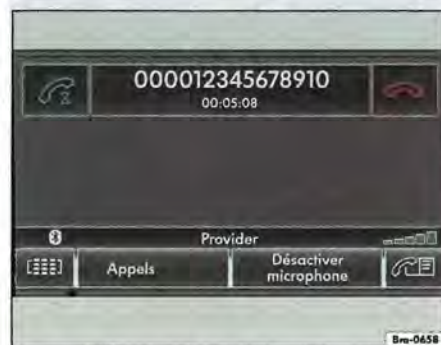


Fig. 103 PHONE main menu: Telephone call

If you have dialled a telephone number or answered a call, the *PHONE* main menu changes to the *Telephone call* $\Rightarrow$ fig. 103 view.

Incoming telephone calls

- An incoming telephone call is shown on the screen as "Incoming call" along with the telephone number of the caller. If the number of the caller is saved in the telephone book, the name of the caller is shown instead of the telephone number.
- Touch the function key to accept the call.
- Touch the function key to refuse the call.

Speed dial key Voice mailbox

The speed dial key also does not have a factory-default telephone number, as this number depends on the mobile phone provider and country. However, the name for this speed dial key is assigned and cannot be changed. This is a good place to store the number of your mailbox so you can quickly listen to your voice messages. $\blacktriangleleft$



Fig. 104 Playing the DTMF button melody.

During a telephone call

- If you touch the function key during a telephone call, the current call is switched to "mute" (display: "Call being held"). This means that the call continues to be held while the sound is muted.
- When you touch the function key again, the call can be continued.
- If you touch the function key during the call, the call to the current telephone number will be ended and the unit changes to the *PHONE* $\Rightarrow$ page 117, fig. 102 main menu.

Making a second call while telephoning

- Touch the function key during a call to put it on "hold", as is described above $\Rightarrow$ page 118, "During a telephone call".
- Call another person by entering a new telephone number $\Rightarrow$ page 112 or select a saved telephone number $\Rightarrow$ page 113, as is described in the corresponding chapter.
- When you have made another call, you can switch between the two calls ("toggling"), as described below.

"Call waiting" and toggling between two callers

- If you receive a call during another call, the number or name of the caller is shown on the screen below the current call (function: "Call waiting").
- In the "Incoming call" line, touch the function key to refuse the call.
- In the "Incoming call" line, touch the function key to answer the call. The call with the first caller is put on hold, but not ended (display: "Call being held").

– If you touch the function key in the line "Call being held", the call with this caller is continued and the other caller is put on "hold". You can toggle back and forth between callers.

– Touch the function key to end the call to the telephone number shown in this line.

DTMF tones

Every telephone button has a specific DTMF tone assigned to it. DTMF tones are used to enter a password over the telephone or to select an employee in a "Call centre", for example.

If you are asked to enter a DTMF tone during a call, open the keyboard field by touching the bottom left function key and follow the instructions $\Rightarrow$ page 118, fig. 104 (for example: "To speak to one of our staff, please press 3").

You can also save a series of DTMF tones in your mobile phone. If you are asked to enter this series of DTMF tones during a call, call up the entry from the telephone book, as described $\Rightarrow$ page 114.

If you touch the function key in the input mask, the character sequence shown in the input line is played as a series of DTMF tones.

Note that in a series of DTMF tones, the character "+" must not be used, as it interrupts the playing of the DTMF tones. $\blacktriangleleft$

SETUP function selection button

Settings main menu (setup)

In the settings main menu, first select the area where you would like to make changes.

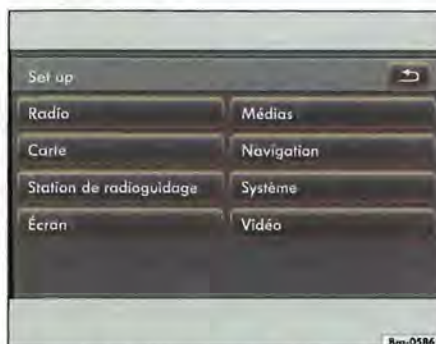


Fig. 105 Main menu settings: Selection.

- Press the **SETUP** function selection button to open the **Settings** main menu.
- Touch the area where you would like to change or perform settings.
- Touch the $\Rightarrow$ fig. 105 **SETUP** function key to switch back to the last selected menu.

Overview of the setting menus

Radio – perform settings for the function of the arrow keys in radio mode, for the displayed memory buttons, for the memory list, and for TMC traffic messages $\Rightarrow$ page 121, “Radio settings”.

Map – perform settings for map display and select symbols for display on the map $\Rightarrow$ page 122, “Map settings”.

Traffic information – select preferred TMC stations and specify the range for TMC messages $\Rightarrow$ page 122, “Traffic information settings”.

Screen – set the brightness of the screen, and check/uncheck day/night design of the map display and button confirmation tone $\Rightarrow$ page 123, “Screen settings”.

Media – specify settings for playing and displaying MP3 files and activate or deactivate external connections $\Rightarrow$ page 124, “Media settings”.

Navigation – specify settings for issuing navigation recommendations, define or change the address as the home address and start a virtual demonstration drive with a manually set starting point $\Rightarrow$ page 124, “Navigation settings”.

System – system settings such as language and time and undoing or deleting performed and saved settings in individual areas $\Rightarrow$ page 126, “System settings”.

Video – perform settings for language selection when inserting a video DVD and adjust the aspect ratio. When operating an external media source²⁷⁾ the audio/video standard can be set $\Rightarrow$ page 126, “Video settings” and settings for TV operation can be performed $\Rightarrow$ page 51, “TV settings”.

Telephone – update the telephone book in the unit, delete all call lists, and edit the speed dial key assignments $\Rightarrow$ page 127, “Telephone settings”.

²⁷⁾ Optional equipment Only if a TV tuner is installed $\Rightarrow$ page 42. Please refer to the operating manual provided by the manufacturer.

Radio settings



Fig. 106 Menu: Radio settings.

Call up the **Radio settings** menu by pressing the **SETUP** function selection button and the **Radio** function key $\Rightarrow$ fig. 106.

Specifying station selection using arrow keys

- In the **Radio settings** menu, touch the function key after **arrow keys**.
- Touch **Station list** or **Memory list** to specify which list should be used to select stations using the arrow keys. If **Memory list** is selected, only stations stored in the memory list are called up using arrow keys $\Rightarrow$ page 16, “Selecting stored radio stations”. In the **RADIO** main menu “memory” is displayed in the top left.

Selecting station buttons for display

- In the **Radio settings** menu, touch the function key after **Station buttons**.
- In the pop-up window which opens, touch the stations to be displayed in the **RADIO** main menu.

Switching traffic announcements on and off

- In the **Radio settings** menu, touch the **Traffic information** function key to switch the traffic announcements playback function on or off $\Rightarrow$ page 18, “Traffic programme (TP) function”. A check in the checkbox ☒ indicates that the traffic information function is switched on.

Selecting preferred TMC stations

- In the **Radio settings** menu, the **Current TMC station: ...** function key shows the TMC station from which TMC traffic messages are currently being received.
- Touch the function key after **Preferred TMC station** and touch to select your preferred TMC station in the pop-up window which appears.
- Touch **Automatic** if you would like the unit to search for a TMC station automatically.

Deleting a memory list

- In the menu **Radio settings** move the slider all the way down to show the **Delete memory list** function key.
- Touch the **Delete memory list** function key and confirm the following security check to delete all of the radio stations saved in the memory list $\Rightarrow$ page 14, “Storing radio stations”.

Preferred TMC station

If the “preferred” TMC station can no longer be received, the TMC station offering the best reception for the area currently being travelled is automatically searched for by the system. The TMC station sending the messages currently on display is shown in **Radio settings**.

Map settings

Call up the *Map settings* menu by pressing the **SETUP** function selection button and the **Map** function key.

Position of the additional window

- In the *Map settings* menu, touch the function key after **Additional window**.
- Touch **right** or **left** to specify the position of the additional window in the map display ⇒ page 105.

Selecting the map details to be displayed

- In the *Map settings* menu, touch the **Additional window** function key. The *Select point of interest category* menu is opened.
- The available map details correspond to the available point of interest categories ⇒ page 72, “Available point of interest categories”.

- Select a map detail you would like to display in the map by touching ⇒ page 69, “Selecting a point of interest category”. Selected map details are shown by a check in the checkbox ☒ and below in the input line.
- Touch a map detail marked with an active checkbox ☒ to remove the check in the checkbox. The corresponding symbol is deleted from the input line at the bottom.
- Touch the **None** function key to delete all of the marked map details displayed in the input line at once.

Displaying favourite symbols

- In the *Map settings* menu, touch the function key after **Favourite symbol** to activate or deactivate the checkbox. If the checkbox is activated ☒ the destinations stored as a favourite destination are displayed in the map with the symbol of the selected favourite category ⇒ page 104. ◀

Traffic information settings

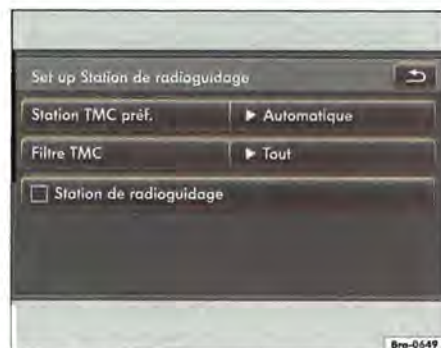


Fig. 107 Menu: Traffic information settings

Call up the *Traffic information settings* menu by pressing the **SETUP** function selection button and the **Traffic information** function key.

Selecting preferred TMC stations

- In the *Traffic information settings* menu, touch the function key after **Preferred TMC station** and touch your preferred TMC stations in the pop-up window which opens.
- Touch **Automatic** if you would like the unit to search for a TMC station automatically.

Selecting messages to be displayed

- In the *Traffic information settings* menu, touch the function key behind **TMC filter** and select which TMC traffic messages you wish to be displayed from the pop-up window which opens.
- Touch **On the route** to show only those TMC traffic messages relating to traffic congestion along your route during route guidance.
- If you touch **All** all current TMC traffic messages are displayed.

Switching traffic announcements on and off

- In the *Traffic information settings* menu, touch the **Traffic information** function key to switch the traffic announcements playback function on or off ⇒ page 18, “Traffic programme (TP) function”. A check in the checkbox ☒ indicates that the traffic information function is switched on.

If the preferred TMC station can no longer be received, the TMC station offering the best reception for the area currently being travelled is automatically searched for by the system. The TMC station sending the messages currently on display is shown in *Radio settings*.

If “automatic” is selected, the TMC station offering the best reception for the area currently travelled is always searched for automatically by the system. ◀

Screen settings

The brightness of the screen and the type of map display are adapted automatically or can be set manually. The “button tone” (confirmation tone) can be switched on or off.

Call up the *Screen settings* menu by pressing the **SETUP** function selection button and the **Screen** function key.

Brightness

- In the *Screen settings* menu, touch the function key behind **Brightness** and select a setting in the pop-up window which opens.
- Touch the **Automatic** function key to adapt the brightness of the screen automatically to the current light conditions via sensors on the unit.
- Touch one of the other function keys to set the screen brightness manually.

Day / night

- In the *Screen settings* menu, touch the function key behind **Day / night** and select a setting in the pop-up window which opens.
- Touch the **Automatic** function key to change the map display from night to day design, depending on whether the driving light is switched on or off.
- Touch the **Day** or **Night** function key to manually specify the day or night design for the map display. ▶

Confirmation tone

- In the *Screen settings* menu, touch the function key after **Confirmation tone** and select a setting in the pop-up window which opens.

- Touch **On** or **Off** to switch the confirmation tone of an operation or function key on the screen on or off.

Note

Note that manually setting the screen under unfavourable conditions can make the screen unreadable. ◀

Media settings

Call up the *Media settings* menu by pressing the **SETUP** function selection button and the **Media** function key.

- Activate the checkboxes in front of the entries ☒ by touching the appropriate function key. Touch the function key again to deactivate the checkbox ☐.

Function keys in the menu: Media settings

Activate AV input – to play back an optional external audio/video source²⁸⁾, when a TV tuner is installed ⇒ page 42.

Activate AUX input – to play back an external audio source.

Deactivate artist/track name – the settings determine if the track and artist name, or just the file and folder name are displayed on audio CDs with CD text and in MP3 mode ⇒ page 28.

Play with subfolders – plays all MP3 files stored in folders and subfolders according to the sequence on the played medium ⇒ page 29, "Play order of MP3 files and folders". ◀

Navigation settings

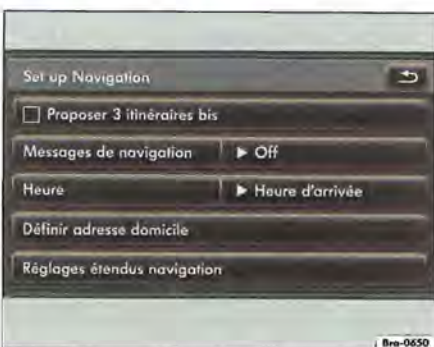


Fig. 108 Menu: Navigation settings

Call up the *Navigation settings* menu by pressing the **SETUP** function selection button and the **Media** function key.

Have three alternative routes suggested

- Touch *Navigation settings* in the main menu on the **Suggest 3 alternative routes** function key to switch the function on or off. A check in the checkbox ☒ indicates that the function is switched on ⇒ page 95. ▶

Nav. announcements

- In the *Navigation settings* menu, touch the function key after **Nav. announcements** and select a setting in the pop-up window which opens ⇒ page 125.

Time display

- In the *Navigation settings* menu, touch the function key after **Time display** and, in the pop-up window which opens, touch to select the **Arrival time** or **Drive time**. During route guidance the set time is shown in the map display ⇒ page 102.

Defining or changing the home address

- In the *Navigation settings* menu touch the **Define home address** function key ⇒ page 83, "Editing the saved home address".

Demo mode

- In the *Navigation settings* menu touch the **Advanced navigation settings** function key.
- In the *Advanced navigation settings* menu, touch the **Demo mode** function key to switch demo mode on or off. A check in the checkbox ☒ indicates that demo mode is switched on ⇒ page 125, "Demo mode".
- If demo mode is activated, you can also manually enter a fictitious location. Select the location from the map, analogue to selecting a travel destination from the map ⇒ page 74.

Entering the average speed for the time calculation

- In the *Navigation settings* menu touch the **Advanced navigation settings** function key.

- In the *Advanced navigation settings* menu, touch **Av. speed for time calc.** and, in the pop-up window which opens, touch to select **Fast**, **Medium** or **Slow** ⇒ page 125, "Adjustable average speed".

Demo mode

In demo mode, you can start virtual route guidance. Virtual route guidance is repeated when the fictitious travel destination has been reached. Stop virtual route guidance in the usual way and deactivate the demo mode so you can start "real" route guidance.

Because the unit has to re-orient itself first, it could take a while for the unit to determine your real location, depending on the number of satellites currently available. Drive a few meters.

Nav. announcements

Off – no spoken navigation recommendations are issued.

Dynamic – navigation announcements are only issued when the calculated route has been left, e.g. as a response to traffic congestion warnings. This setting is recommended when navigation announcements for a route travelled each day are no longer needed and the navigation system is only used for dynamic navigation ⇒ page 98, "Dynamic route guidance with TMC (Traffic Message Channel)". If a navigation announcement is issued again due to a change in route, Nav. announcements are always switched on again (display: **Nav. announcements** ▶ **On**).

On – navigation announcements are played during audio mode at the preset volume ⇒ page 96, "Issuing navigation recommendations".

Adjustable average speed

Depending on the average speed set, an arrival or travel time is determined and displayed by the unit during a route calculation ⇒ page 125, "Time display". ◀

²⁸⁾ Optional equipment

System settings

Call up the *System settings* menu by pressing the **[SETUP]** function selection button and the **[System]** function key.

Changing system settings

- In the *System settings* menu, touch one of the displayed function keys and select the desired setting in the pop-up window which opens.
- In this way, you can set the language for spoken text and screen displays, and change the distance or temperature units, or the time and date format.

Resetting the unit to the factory settings

- In the *System settings* menu, touch the **[Factory settings]** function key.

- In the *Factory settings* menu, activate the checkboxes in front of the entries ☒ by touching the appropriate function key. Touch the function key again to deactivate the checkbox ☐.
- In this way, you can select settings you would like to reset.
- Touch the **[Reset]** function key and confirm the following security check to reset the selected settings to factory settings and delete the data stored there.

In certain cases, settings for "time" and "date" may only be performed manually. The time and date from the vehicle is usually copied automatically into the unit. ◀

Video settings

You can change the settings for language and aspect ratio of the screen display during video-DVD operation.



Fig. 109 Menu: Video settings.

Call up the *Video settings* menu by pressing the **[SETUP]** function selection button and the **[Video]** function key.

Changing the language

- In the *Video settings* menu, touch the **[audio language]**, **[menu language]** or **[Sub-title]** and, in the pop-up window which opens, touch to select the desired language²⁹⁾.
- The sub-titles function can be fully switched off by touching **[Off]**.

Changing the aspect ratio of the screen display

- The aspect ratio currently set can be displayed by pressing the **[DVD format]** function key.

- Touch the **[DVD format]** function key and, in the pop-up window which opens, touch **[4:3]** or **[16:9]** to set that aspect ratio. All video data is now played back in this aspect ratio.

Settings for vehicles with TV tuner

If a TV tuner is connected to the unit, additional setting options are available here ⇒ page 51, "TV settings". ◀

Applies to vehicles: with PREMIUM mobile telephone provision

Telephone settings

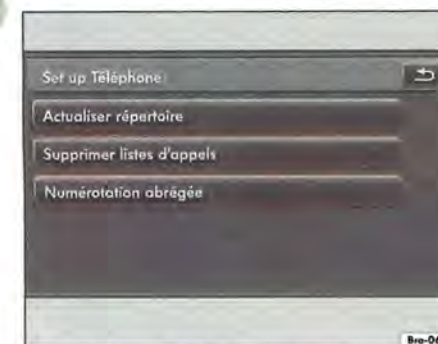


Fig. 110 Menu: Telephone settings

Call up the *Telephone settings* menu by pressing the **[SETUP]** function selection button and the **[Telephone]** function key.

Updating the telephone book in the unit

- Touch the **[Update telephone book]** function key to update all of the entries changed since the last pairing in the telephone book of the mobile phone or SIM card. This procedure can take a few minutes.

- Confirm the following security check. The "old" data of the telephone book in the unit can still be selected while the data is being updated.

- To do this, follow the vehicle instruction manual for the PREMIUM mobile telephone provision.

Deleting call lists

- Press the **[Delete call lists]** function key.
- If you confirm the following safety check with **[Delete]**, the saved telephone numbers of all the calls made on the unit, as well as non-answered calls are deleted.

Editing speed dial keys

- Touch the **[Speed dial]** function key to edit the assigned speed dial keys.
- In the following menu, touch the speed dial key to change its assignment.
- Edit the entry as is described ⇒ page 117, "Saving numbers to speed dial keys". ◀

²⁹⁾ The languages available for selection as the menu, audio or sub-title language depends on the inserted video-DVD.

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